

March 20, 2015

Via email

Mr. Steve Armann
Manager, RCRA Corrective Action Office
Waste Management Division
U.S. Environmental Protection Agency, Region IX
75 Hawthorne Street
San Francisco, California 94105-3901

Re: Notification of Additional Locations at Malibu High School and Juan Cabrillo Elementary School to be Addressed in Accordance with October 2014 USEPA Approved Plan

Dear Mr. Armann:

On behalf of the Santa Monica-Malibu Unified School District (SMMUSD or the District), ENVIRON International Corporation (ENVIRON) is providing this notification to U.S. Environmental Protection Agency (USEPA) Region IX of additional areas at Malibu High School (MHS) and Juan Cabrillo Elementary School (JCES) that will be addressed in accordance with SMMUSD's USEPA-approved Toxic Substances Control Act (TSCA) polychlorinated biphenyls (PCBs) Clean-up and Disposal Approval under 40 CFR 761.61(c) dated October 31, 2014¹ (October 2014 Approval).² Pursuant to the October 2014 Approval, SMMUSD will "remove from Malibu High School and Juan Cabrillo Elementary School any newly-discovered PCB-containing caulk within one year after the District verifies that the caulk contains PCBs at or above 50 ppm."³

This letter provides information on the additional areas at MHS and JCES with building materials (caulk) with identified and verified concentrations above 50 parts per million (ppm) PCBs. These areas will be addressed in accordance with the approved methods in the October 2014 Approval. SMMUSD is currently developing a proposed schedule for completion of the removal in these additional areas. Once the schedule is developed, it will be communicated to USEPA Region IX.

The areas identified in this notification are in rooms at MHS and JCES where ENVIRON conducted a visual inspection of locations where Public Employees for Environmental Responsibility (PEER) and America Unites for Kids (AU)⁴ conducted unverified building materials sampling/testing and reported PCB concentrations in bulk samples exceeding 50 ppm (herein referred to as third party testing or reported sampling). This letter summarizes what is known about the reported third party sampling and ENVIRON's inspection findings and sampling results.

¹ USEPA, 2014. Letter from Jared Blumenfeld/USEPA to Sandra Lyon/SMMUSD. October 31. Available online: http://www.smmusd.org/PublicNotices/EnvDocs/EPAtoSL_103114.pdf

² This approval was for ENVIRON. 2014. *Supplemental Removal Information for the Library, Building E - Rooms 1, 5, and 8 and Building G - Room 506 at Malibu High School*. September 26. Available online: <http://smmusd.org/PublicNotices/MHSSuppRemovalSSP092614.pdf>

³ In the event that the procedures described in the October 2014 Approval cannot be implemented within one year following identification and verification, SMMUSD will submit a request for an extension of time to USEPA.

⁴ America Unites for Kids was previously known as Malibu Unites for Healthy Schools

Third Party Reported Bulk Sampling for PCBs

Based on documents on the PEER and AU websites^{5,6} and on information available to ENVIRON provided in Attachment A, the following third party sampling activities by PEER/AU have been identified:

- On May 10 and 12, 2014, 27 bulk samples reportedly were collected at MHS and JCES. Although the chain of custodies for these samples do not contain a date that the samples were relinquished by field personnel, the samples arrived at Frontier Analytical Laboratory in El Dorado Hills, California on May 13, 2014; however, AU asked that the samples be placed on hold before they were analyzed. Of the original 27 bulk samples listed on the AU chains of custodies, only 26 were received by Frontier Analytical Laboratory. On June 9, 2014, AU requested that Frontier Analytical Laboratory send six samples (3 caulk and 3 dirt or vent soil) to BC Laboratories Inc. in Bakersfield, California for analysis per USEPA Method 8082 for PCBs. The six samples were received by BC Laboratories on June 13, 2014. In August 2014, Frontier analyzed the remaining 20 samples for PCBs and 2 had additional congener analyses conducted. Analyses included Modified USEPA Method 1668C for PCB congeners as well as analysis for PCB-126. Not all sample results have been reported in information available to ENVIRON.
- On August 15, 2014, six bulk samples reportedly were collected from MHS and JCES (Attachment A). Although the chain of custody for these samples does not contain a date that the samples were relinquished by field personnel, the samples were received by Eurofins CalScience, Inc. in Garden Grove, California on August 20, 2014. The samples were analyzed per USEPA Method 8082 for PCBs.
- On September 23 and November 20, 2014, six bulk samples reportedly were collected from MHS and JCES (Attachment A). Although the chain of custody for these samples does not contain a date that the samples were relinquished by field personnel, the samples were received by Eurofins CalScience, Inc. in Garden Grove, California on September 30 and November 28, 2014. The samples were analyzed per USEPA Method 8082 for PCBs.

Of the 39 samples reported on the chain of custodies cited above, results for only 24 were provided based on information available to ENVIRON (see Attachment A) and not all were samples of interior building materials. The total reported PCB concentrations for all Aroclors ranged from 1.6 to 370,000 ppm. The methodology used to collect the samples, the sample location selection, what decontamination procedures were used between samples collected, or the reason why some samples were selectively submitted for analysis or results not released is not provided.⁷ Table 1 contains a summary of the reported third party collected bulk samples and total PCB concentrations where analysis data was available. As indicated in Table 1 (yellow highlighting), 14 samples have a reported PCB concentration greater than 50 ppm.

ENVIRON's inspection focused on presumed sample locations of this third party testing with PCB concentrations greater than 50 ppm.

⁵ Public Employees for Environmental Responsibility (PEER). Available online at <http://www.peer.org/>

⁶ AmericaUnites for Kids (AU). Available online at <http://americaunites.com/>

⁷ Information requests to AU/PEER to provide additional information needed to verify sample locations and results were made on the behalf of SMMUSD on July 23, 2014 and September 22, 2014. All the requested information has yet to be provided to SMMUSD or ENVIRON.

Inspection of Third Party Tested Rooms

On January 31, 2015, ENVIRON conducted a visual inspection of select accessible areas at MHS and JCES to attempt to identify the locations where third party tests showed reported results greater than 50 ppm PCBs. Although the third party testing included a sample identification “key” with the bulk sampling results, ENVIRON was not able to definitively determine many of the sample room locations due to vague descriptions and/or incomplete sample documentation including the following:

- ENVIRON was not able to identify the location of the caulk sample reportedly collected from a worker dragging a bag (ID AIR DUCT GUY).
- The exact location of JCES office (ID JC OFFICE) was not identified as there are several offices in JCES as well as an entire office building, Building A.
- The same identification issues were apparent in evaluating the location of an interior window caulk sample from Room 3 (ID JJ1) as there is a Room 3 at both MHS and JCES. Based on additional samples reportedly collected from MHS Room 3 in Building E (000, Blue Shark) JCES Building B Room 3 was not the presumed location and therefore was not inspected.

In addition, the highest third party reported PCB concentration (370,000 ppm) was from an interior door frame in Room 506 (i.e., woodshop) in Building G (500, Angel Shark) at MHS. Room 506 has since been incorporated into a group of rooms previously identified by the District⁸ that were included and will be addressed under the October 2014 Approval. As a result, Room 506 was not inspected or photographed during this investigation.

ENVIRON’s identifications or assumptions regarding the rooms with third party sampling are described in Table 1. ENVIRON’s inspection findings for rooms with third-party reported PCB concentrations greater than 50 ppm are presented in Table 2 and associated Figures. Photographs of the inspection are archived and available upon request.

As shown in Table 2 and associated Figures, there are uncertainties regarding the third party sampling locations in these rooms as ENVIRON observed multiple areas of missing (or gaps in the) caulking in most cases. Therefore, the specific area where a third party sample was taken cannot be verified without the additional information previously requested of AU/PEER on September 22 and 24, 2014 but not yet provided by them. This previously requested material included the following:

- The date and time the samples were collected;
- The school, building and placarded room number where the samples were collected;
- The location within each room at the Malibu Campus where the samples were taken;
- The party who collected the samples;
- A complete chain of custody of the samples from the time that they were collected to when they were received by the laboratory and how they were stored from the time of collection until time of laboratory analysis;
- The methodology used to collect such samples;

⁸ Library, Building E - Rooms 1, 5, and 8 and Building G - Room 506 at Malibu High School.

- Any photos and/or field notes taken while the samples were collected; and
- Any third party data validation report.

The additional information listed above would be needed to identify if one of the gaps listed in Table 2 was the location of a sample result reported by AU/PEER.

Sampling of Third Party Tested Rooms

On February 28, 2015, ENVIRON conducted bulk sampling of interior window and door caulking around some of the gaps in caulking judged to more likely have been intentionally removed (as identified in ENVIRON's January inspection, see Table 3). Photographs of the bulk sampling are archived and available upon request. The total PCB results from the 24 bulk caulk samples collected are also reported in Table 3. The total PCB concentrations in all bulk caulk samples collected on February 28, 2015 exceeded 50 ppm. Therefore, the rooms and locations identified in Table 3 and associated Figures constitute the areas covered by this notification. These areas will be addressed using the methods described in the October 2014 Approval. Pursuant to the October 2014 Approval, these other areas listed in Table 3 will be addressed within one year of validation of the sampling results."⁹

Laboratory reports and third party validation of these laboratory reports are included as Attachment B. ENVIRON's Sampling and Analysis Plan is included as Attachment C.

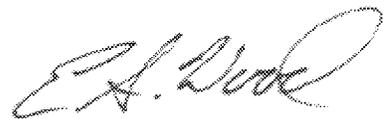
Closing

We would be pleased to answer any questions that you may have about this letter. If you have any questions or would like to discuss this further, please contact either one of us.

Sincerely,



Doug Daugherty, PhD, PE, CIH
Managing Principal



Eric S. Wood, PG, PHg, LSP
Principal

Attachments:

Tables

Figures

A: Third Party Reported Bulk Sampling for PCBs Laboratory Reports

B: Laboratory Analytical Reports and Data Validation for ENVIRON's Bulk Sampling of MHS and JCES

C: ENVIRON's Sampling and Analysis Plan: Malibu High School and Juan Cabrillo Elementary School

⁹ In the event that the procedures described in this Supplement cannot be implemented within one year following identification and verification, SMMUSD will submit a request for an extension of time to USEPA.

Tables

Table 1. Rooms Reportedly Sampled by America Unites for Kids (AU) and Public Employees for Environmental Responsibility (PEER)

Malibu High School and Juan Cabrillo Elementary School
Malibu, California

| AU/PEER Reported Results | | | | | | | | ENVIRON Presumed Location | | | | |
|---|--------------|--|----------------------------------|-------------------|-------------------|-------------------------|--------|---------------------------|---|------------------|--------------------|-----------------------|
| AU Sample ID | Date Sampled | Sample Description | Reported Sample Material | Date Lab Received | Date Lab Analyzed | Aroclor Results (mg/kg) | | | Building | Placard Room ID | Floor Plan Room ID | Room Description |
| | | | | | | 1254 | 1260 | Total | | | | |
| First Round of Results Reported: | | | | | | | | | | | | |
| JJ1 | 5/10/2014 | Room 3, Interior Window | Caulk | 5/13/2014 | 6/19/2014 | 9.7 | -- | 9.7 | MHS E (000, Blue Shark) ¹ | 3 | 118 | Classroom |
| WW2 | NR | Woodshop interior door frame | Caulk | 6/13/2014 | 6/19/2014 | 370,000 | -- | 370,000 | MHS G (500, Angel Shark) ² | 506 | 403 | Wood shop |
| SS1 | 5/10/2014 | Grout outside Student Store | Caulk | 6/13/2014 | 6/19/2014 | 5.3 | -- | 5.3 | MHS H (Cafeteria/Auditorium) | Student Store | 126,127 | Student Store |
| LL1 | 5/10/2014 | Inside PE Office ³ exterior window, clear caulk | Caulk | 5/13/2014 | 6/19/2014 | 12.0 | -- | 12.0 | MHS J (700, Old Gymnasium) | 704, 705, or 722 | 117, 115, or 139 | PE Office |
| LL2 | 5/10/2014 | Inside PE Office ³ exterior window | Caulk | 5/13/2014 | 6/19/2014 | 190.0 | -- | 190.0 | | | | |
| LL5 | 5/10/2014 | PE Office ³ inside window | Caulk | 5/13/2014 | 6/19/2014 | 1.8 | -- | 1.8 | | | | |
| JJC1 | 5/10/2014 | Juan Cabrillo Room 19 | Caulk | 5/13/2014 | 6/19/2014 | 340,000 | -- | 340,000 | JCES F | 19 | 19 | Music room |
| JJC3 | 5/10/2014 | Juan Cabrillo outside bathroom | Window Grout | 5/13/2014 | 6/19/2014 | 1.6 | -- | 1.6 | JCES C | Girls' restroom | 143 | Girls' restroom |
| BB5 | 5/10/2014 | Dirf Room 1 | Soil - in Wall Vent ⁴ | 5/13/2014 | 6/19/2014 | 2.7 | -- | 2.7 | MHS E (000, Blue Shark) | 1 | 116 | Classroom |
| AJ1 | 5/12/2014 | Room 2 dirt | Wall Vent Soil ⁴ | 6/13/2014 | 6/19/2014 | 1.6 | -- | 1.6 | MHS E (000, Blue Shark) | 2 | 108 | Classroom |
| KK1 | 5/10/2014 | Dirf Room 5 | Soil - in Wall Vent ⁴ | 5/13/2014 | 6/19/2014 | 2.0 | -- | 2.0 | MHS E (000, Blue Shark) | 5 | 120 | Classroom |
| TT2 | NR | NR | Caulk - Maint Theater | NR | NR | NR | NR | NR | Insufficient ID, no laboratory results provided. | -- | -- | -- |
| ART | 5/10/2014 | Exterior window | Caulk | 6/13/2014 | 6/19/2014 | 4.3 | -- | 4.3 | Insufficient ID. | -- | -- | -- |
| JJC2 | 5/10/2014 | Bathroom | Caulk | 5/13/2014 | NR | NR | NR | NR | Insufficient ID, no laboratory results provided. | -- | -- | -- |
| TT3 | NR | NR | Window Glaze | NR | NR | NR | NR | NR | Insufficient ID, no laboratory results provided. | -- | -- | -- |
| LL3 | 5/10/2014 | NR | Dirf and Dust | 5/13/2014 | NR | NR | NR | NR | No building material sampled, no laboratory results provided. | -- | -- | -- |
| LL4 | 5/10/2014 | NR | Wipe Dust | 5/13/2014 | NR | NR | NR | NR | No building material sampled, no laboratory results provided. | -- | -- | -- |
| BB1 | 5/10/2014 | NR | Felt - Vent | 5/13/2014 | NR | NR | NR | NR | No building material sampled, no laboratory results provided. | -- | -- | -- |
| BB2 | 5/10/2014 | NR | Vent - Wipe | 5/13/2014 | NR | NR | NR | NR | No building material sampled, no laboratory results provided. | -- | -- | -- |
| BB3 | 5/10/2014 | NR | Wipe - Inside Cab/Trench | 5/13/2014 | NR | NR | NR | NR | No building material sampled, no laboratory results provided. | -- | -- | -- |
| BB4 | 5/10/2014 | NR | Wipe - Under sink - Trench | 5/13/2014 | NR | NR | NR | NR | No building material sampled, no laboratory results provided. | -- | -- | -- |
| TT1 | NR | NR | Vent - Wipe - Blw Kit & GR | NR | NR | NR | NR | NR | No building material sampled, no laboratory results provided. | -- | -- | -- |
| WW1 | NR | NR | Carpet Sample | NR | NR | NR | NR | NR | No building material sampled, no laboratory results provided. | -- | -- | -- |
| RMG | NR | NR | Wall Vent Dirt | NR | NR | NR | NR | NR | No building material sampled, no laboratory results provided. | -- | -- | -- |
| AJ2 | NR | NR | Wall Vent Dust/Wipe | NR | NR | NR | NR | NR | No building material sampled, no laboratory results provided. | -- | -- | -- |
| Ceiling Bulk TT | NR | NR | NR | NR | NR | NR | NR | NR | Insufficient ID, no laboratory results provided. | -- | -- | -- |
| Paint TT | NR | NR | NR | NR | NR | NR | NR | NR | Insufficient ID, no laboratory results provided. | -- | -- | -- |
| Second Round of Results Reported | | | | | | | | | | | | |
| French - MHS | 8/15/2014 | MHS room 205: interior door frame | Caulk | 8/20/2014 | 8/24/2014 | 200 | -- | 200 | MHS D (100 &200, Mako Shark) | 205 | 205 | Classroom |
| 7 - MHS | 8/15/2014 | MHS room 7: interior window frame | NR | 8/20/2014 | 8/24/2014 | 190 | -- | 190 | MHS E (000, Blue Shark) | 7 | 122 | Classroom |
| 10 - MHS | 8/15/2014 | MHS room 10: interior window frame | NR | 8/20/2014 | 8/24/2014 | 32 | -- | 32 | MHS E (000, Blue Shark) | 10 | 101 | Classroom |
| 505 - MHS | 8/15/2014 | MHS room 505: interior door frame on north wall of room | NR | 8/20/2014 | 8/25/2014 | 180,000 | 51,000 | 231,000 | MHS G (500, Angel Shark) | 505 | 404N | Art classroom |
| 401 - MHS | 8/15/2014 | MHS room 401: interior office window frame | NR | 8/20/2014 | 8/25/2014 | 120,000 | 26,000 | 146,000 | MHS I (400, Leopard Shark) | 401 | 401 | Classroom |
| Air Duct Guy | 8/15/2014 | Caulking found from worker dragging bag | Caulk | 8/20/2014 | 8/24/2014 | 27 | 31 | 58 | Insufficient ID, location undetermined. | -- | -- | -- |
| Third Round of Results Reported | | | | | | | | | | | | |
| MH 704 | 9/23/2014 | MHS room 704: Caulk in a door frame in a hallway | Caulk | 9/30/2014 | 10/7/2014 | 4,700 | -- | 4,700 | MHS J (700, Old Gymnasium) | 704 | 117 | Faculty Office |
| MH3 | 9/23/2014 | MHS room 3: caulk | Caulk | 9/30/2014 | 10/7/2014 | 330 | -- | 330 | MHS E (000, Blue Shark) | 3 | 118 | Classroom |
| JC OFFICE | 11/20/2014 | JCES office: interior window caulk | Caulk | 11/28/2014 | 12/5/2014 | 710 | -- | 710 | JCES A ⁵ | All | All | Administration Office |
| JC 18 | 11/20/2014 | JCES room 18: interior window caulk | Caulk | 11/28/2014 | 12/5/2014 | 110,000 | -- | 110,000 | JCES F | 18 | R18 | PTA room |
| JC 22 | 11/20/2014 | JCES room 22: interior window caulk | Caulk | 11/28/2014 | 12/5/2014 | 74,000 | -- | 74,000 | | 22 | R22 | Art classroom |
| JC23 | 11/20/2014 | JCES room 23: interior window caulk | Caulk | 11/28/2014 | 12/5/2014 | 85,000 | -- | 85,000 | | 23 | R23 | Overflow/music room |

Notes:

1. AU reportedly sampled Room 3. There are two potential locations, one in MHS Building E (000, Blue Shark) and one in JCES Building B. Due to the additional sample reportedly collected from MHS Building E (000, Blue Shark), Room 3 was assumed to be reportedly collected from MHS.
2. Room 506 of MHS Building G (500, Angel Shark) was not accessible at the time of the investigation, however this room has already been incorporated into a group of rooms included under the USEPA Region IXs October 31, 2014 approval letter.
3. AU reportedly sampled the PE office. There is no PE office in JCES, and there are three PE Offices in Building J (700, Old Gymnasium) of MHS (Rooms 704, 705, and 722).
4. Reported sample material was not caulk nor building material, therefore no further investigation was conducted.
5. AU reportedly sampled the JCES office. There are a couple offices at JCES, including Building A which is the Administration Office.
6. Yellow highlighted cells have reported total PCB concentrations exceeding 50 parts per million (ppm).
7. Blue highlighted cells indicate reported samples that are either not of building materials (e.g. dirt and dust) or do not have sufficient information to determine a location.

Abbreviations:

AU = America Unites
 ID = identification
 JCES = Juan Cabrillo Elementary School
 mg/kg = milligrams per kilogram
 MHS = Malibu High School
 NR = not reported
 PE = physical education
 PEER = Public Employees for Environmental Responsibility
 ppm = parts per million
 PTA = parent teacher association

Table 2. Inspection Results of Locations Reportedly Sampled by a Third Party with Total PCB Concentrations Greater than 50 ppm in Building Materials
 Malibu High School and Juan Cabrillo Elementary School
 Malibu, California

| Building | Placard Room ID | Floor Plan Room ID | Room Description | Number of Windows | Number of Doors | Number of Sinks | Sample Description as Provided by AU | Gap ID | Gap Location | Gap Length (cm) | Notes | Figure |
|-------------------------------------|-----------------|--------------------|------------------|------------------------|--------------------------------------|-----------------------------------|--|-------------------------|----------------------|--|---|--------|
| MHS | | | | | | | | | | | | |
| B (100 & 200, Mako Shark) | 205 | 205 | Classroom | NA | 1 | NA | MHS room 205: interior door frame | NI | NI | NI | Some areas of chipped paint, and some separated caulking. No apparent evidence of any tool removed caulk on interior door frame, reported as area sampled. | 1 |
| E (000, Blue Shark) | 3 | 118 | Classroom | 6 | 1 | 1 | Room 3, Interior Window; MHS room 3: caulk | 3-1 | Window B | NA | Door: No gaps identified. Sink: No gaps identified. Window A: Missing all caulk, uncertain if removed or never present. Window B: Generally big gaps and spotty-uncertain if deterioration or removal. Window C: Sill missing silver caulk in lower right. Window D: Lower left frame missing silver caulk. Window E: Removal of somewhat clear caulk along sill, gaps in upper frame of window. Unsure if removal was purposeful in gaps 3-6 and 3-7. Window F: Missing silver caulk in multiple areas along lower | 2 |
| | | | | | | | | 3-2 | | NA | | |
| | | | | | | | | 3-3 | | 7.5 | | |
| | | | | | | | | 3-4 | Window D | 20.5 | | |
| | | | | | | | | 3-5 | | 10.5 | | |
| | | | | | | | | 3-6 | Window E | NA | | |
| | | | | | | | | 3-7 | | NA | | |
| | | | | | | | | 3-8 | Window F | 21 | | |
| | | | | | | | | 3-9 | | 15 | | |
| | | | | | | | | 3-10 | | 18.5 | | |
| 7 | 122 | Classroom | 6 | NA | NA | MHS room 7: interior window frame | 7-1 | Window C | 19 | Window A: No apparent gaps. Window B: Appears to be missing foam gasket between metal frame and glass. Window C: Missing silver caulk. Window D: No apparent gaps. Window E: Foam gasket missing or not aligned properly. Window F: Missing silver caulk. | 3 | |
| | | | | | | | 7-2 | | Window F | | | 15 |
| G (500, Angel Shark) | 505 | 404N | Art classroom | NA | 3 interior on North wall, 2 exterior | NA | MHS room 505: interior door frame on north wall of room | 505-1 | Door B | 74 | Sides of the door and associated door caulk covered by secondary fabric boards. Door A: No apparent gaps. Door B: Missing caulk on top right edge of door. Door C: No apparent gaps. | 4 |
| I (400, Leopard Shark) | 401 | 401 | Classroom | 2 interior windows | NA | NA | MHS room 401: interior office window frame | 401-1 | Window B | 8.5 | Window A: Glass removed, residual clear caulk remains, no other apparent gaps or removed areas. Window B: Two small gap on lower left side in addition to a large shredded area. | 5 |
| | | | | | | | | | | 10 | | |
| | | | | | | | | | | 36 | | |
| J (700, Old Gymnasium) ¹ | 704 | 117 | Faculty office | 3 exterior, 6 interior | NA | NA | Inside PE Office exterior window, clear caulk; PE Office inside window | 704-1 | Window A | 36.5 | Window A: Gap in clear caulk on top of bottom window. Window B: Apparent gap of removed caulk from lower right sill, missing gray caulk on middle window. Window C: Gap along top and underside of lower window, long stretch of missing caulk and hanging transparent caulk. Window D: No apparent gaps. Window E: Three small gaps on top of window between glass and frame. Window F: No apparent gaps. Window G: No apparent gaps. Window H: Removed stretch of painted caulk on bottom sill. Window I: No apparent gaps. | 6 |
| | | | | | | | | 704-2 | | Window B | | |
| | | | | | | | | 704-3 | Window C | 40 | | |
| | | | | | | | | 704-4 | Window B | 3.5 | | |
| | | | | | | | | 704-5 | Window H | 22.5 | | |
| | | | | | | | | 704-6 | Window E | 13 | | |
| | 5 | | | | | | | | | | | |
| | 704 Hall | 115A | Vestibule to 117 | NA | 3 | NA | MHS room 704: Caulk in a door frame in a hallway | 704 Hallway Interior -1 | Door | 124 | Door caulk generally intact, other than a long scratch, on right hand side. | 7 |
| | 705 | 115 | Office | 1 exterior, 2 interior | NA | NA | Inside PE Office exterior window clear caulk; PE Office inside window | NI | NI | NI | Exterior caulk has been repaired; no apparent gaps identified. Interior left side window has been painted over, no gaps identified. Most caulk appears to have been removed on all four sides of interior right side window | 7 |
| | 722 | 139 | Faculty office | 2 exterior, 4 interior | NA | NA | Inside PE Office exterior window clear caulk; PE Office inside window | 722-1 | Left Exterior Window | 4 | Exterior caulk has been repaired over top of old caulk. No gaps identified on interior windows. Interior caulk is new and over top of existing caulk. | 8 |

Table 2. Inspection Results of Locations Reportedly Sampled by a Third Party with Total PCB Concentrations Greater than 50 ppm in Building Materials
 Malibu High School and Juan Cabrillo Elementary School
 Malibu, California

| Building | Placard Room ID | Floor Plan Room ID | Room Description | Number of Windows | Number of Doors | Number of Sinks | Sample Description as Provided by AU | Gap ID | Gap Location | Gap Length (cm) | Notes | Figure |
|----------|-----------------|-----------------------------|--------------------------------------|-------------------|------------------------|---|---|----------|--------------|--|--|--------|
| JCES | | | | | | | | | | | | |
| A | 100J | Principal's Office | Principal's Office | 9 | NA | NA | JCES office Rearior window caulk | NI | NI | NI | No apparent gaps from tool removal, some repair caulk. Possible gaps likely due to incomplete repair caulk in the Nurse's Office and Teachers' workroom. | 9 |
| | 100L, 100E | Main Office | Main Office | 7 | NA | NA | | NI | NI | NI | | |
| | 100F | Community Liaison | Nurse's Office/ community liaison | 6 | NA | NA | | Office-1 | Window C | 10 | | |
| | 100B | 100B | Teachers' workroom | 3 | NA | NA | | Office-2 | Window B | 35 | | |
| F | R18 | 18 | PTA room | 5 | NA | NA | JCES room 18: interior window caulk | 18-1 | Window A | 37 | Bottom window sill covered in masking tape. Bottom window panes recaulked except Window C and part of Window D. Middle and upper panes do not appear to be recaulked. Window A: One gap of missing masking tape and potentially grey caulk. | 10 |
| | | | | | | | | 18-2 | Window E | 14 | Window B: No apparent gaps. Window C: Some areas of apparent deteriorated caulk on lower window pane. Window D: No apparent gaps. Window E: One gap of potentially missing grey caulk. | |
| | R19 | 19 | Music room | 5 | 1 exterior, 1 interior | 1 | Juan Cabrillo Room 19 | 19-1 | Window C | 9 | No gaps in doors or sink caulk, but caulk separated from laminated splash board near sink. Exterior door caulk appears intact and painted over. Exterior window caulk appears intact, some small gaps likely due to weathering. | 11 |
| | | | | | | | | 19-2 | Window D | 19 | Window A: No apparent gaps, some repair caulk. Window B: No apparent gaps, some repair caulk. Window C: Gap on right side, some repair caulk on lower pane. Window D: Gap on left side, spotty repair caulk on lower and middle panes. Window E: No apparent gaps, repair caulk on lower pane. | |
| | R22 | 22 | Art classroom | 5 | NA | NA | JCES room 22: interior window caulk | 22-1 | Window A | 19.5 | Caulk between frames and wall is generally painted over, some separation gaps from wall but no apparent missing gaps. | 12 |
| | | | | | | | | 22-2 | Window A | 24 | Window A: Two potential gaps in gray caulk along bottom window sill. | |
| | | | | | | | | 22-3 | Window B | 19 | Window B: One potential gap in gray caulk along bottom window sill. | |
| | | | | | | | | 22-4 | Window C | 25 | Window C: Two potential gaps in gray caulk along bottom window sill. | |
| | | | | | | | | 22-5 | Window C | 5 | Window D: One potential gap in gray caulk on left side. Window E: One potential gap in gray caulk along sill, caulk on bottom window pane appears shrunken into the gap. | |
| | | | | | | | | 22-6 | Window D | 22 | Window E: One potential gap in gray caulk along sill, caulk on bottom window pane appears shrunken into the gap. | |
| R23 | 23 | Overflow room/music room | 5 | NA | NA | JCES room 23: interior window caulk | 23-1 | Window B | 7 | Caulk between frame and wall generally painted over, some separations noted but no apparent missing gaps. | 13 | |
| | | | | | | | 23-2 | Window B | 23 | Window A: No apparent tool-removed caulk, some repair caulk and some missing patches possible due to deterioration. Window B: Some repair caulk on lower window pane, two gaps on right side of window. | | |
| | | | | | | | 23-3 | Window D | 52 | Window C: Some repair caulk, no apparent gaps. Window D: Some repair caulk, one gap on sill in gray caulk. Window E: Some repair caulking, no apparent gaps. | | |

Notes:

- AU reportedly sampled the PE office. There is no PE office in JCES, and there are three PE Offices in Building J (700, Old Gymnasium) of MHS (Rooms 704, 705, and 722).
- AU reportedly sampled the JCES office. There are a couple offices at JCES, including Building A which is the Administration Office.
- Blue highlighted cells indicate areas where ENVIRON did not perform sampling due to uncertainty in the AU sampled locations. ENVIRON did not identify areas of intentional caulk sampling locations in its investigation.

Abbreviations:

AU = America Unites
 cm = centimeters
 ID = identification
 JCES = Juan Cabrillo Elementary School
 MHS = Malibu High School

NA = not applicable
 NI = not identified
 PE = physical education
 ppm = parts per million
 PTA = parent teacher association

Table 3. Caulk Sample Results from ENVIRON's Investigation
 Malibu High School and Juan Cabrillo Elementary School
 Malibu, California

| Building | Placard Room ID | Floor Plan Room ID | Room Description | Gap ID | Caulk Sample ID | Caulk Sample Length (cm) | Caulk Sample Mass (g) | Aroclor Results (mg/kg) | Figure |
|------------------------|-----------------|--------------------|--------------------------|--------------------------|--------------------------------|--------------------------|-----------------------|-------------------------|--------|
| MHS | | | | | | | | | |
| E (000, Blue Shark) | 3 | 118 | Classroom | 3-4 | 022815-MHS-B000-R3-L4-C1 | 44 | 14.5 | 1,600 J | 2 |
| | | | | 3-10 | 022815-MHS-B000-R3-L10-C1 | 48 | 7.0 | 1,800 J | |
| | 7 | 122 | Classroom | 7-1 | 022815-MHS-B000-R7-L1-C1 | 35 | 3.5 | 330 | 3 |
| | | | | 7-2 | 022815-MHS-B000-R7-L2-C1 | 39 | 3.2 | 1,800 | |
| G (500, Angel Shark) | 505 | 404N | Art classroom | 505-1 | 022815-MHS-B500-R505-L1-C1 | 88 | 5.8 | 220,000 J | 4 |
| I (400, Leopard Shark) | 401 | 401 | Classroom | 401-1 | 022815-MHS-B400-R401-L1-C1 | 113 | 4.3 | 190,000 J | 5 |
| J (700, Old Gymnasium) | 704 | 117 | Faculty office | 704-2 | 022815-MHS-B700-R704-L2-C1 | 74 | 3.5 | 4,500 | 6 |
| | | | | 704-5 | 022815-MHS-B700-R704-L5-C1 | 7 | 3.4 | 1,800 J | |
| | 704 Hall | 115A | Vestibule to 117 | 704 Hallway Interior -1 | 022815-MHS-B700-R704-L5-C2 | 6 | 3.6 | 1,500 | |
| | | | | | 022815-MHS-B700-R704Hall-L1-C1 | 84 | 1.9 | 3,800 J | 7 |
| JCES | | | | | | | | | |
| F | R18 | 18 | PTA room | 18-1 | 022815-JCES-BF-R18-L1-C1 | 57 | 2.2 | 290,000 | 10 |
| | | | | 022815-JCES-BF-R18-L1-C2 | 40.5 | 2.1 | 270,000 | | |
| | | | | 18-2 | 022815-JCES-BF-R18-L2-C1 | 45 | 3.4 | 230,000 | |
| | R19 | 19 | Music room | 19-1 | 022815-JCES-BF-R19-L1-C1 | 65 | 3.2 | 390,000 | 11 |
| | | | | 022815-JCES-BF-R19-L1-C2 | 88 | 6.3 | 570,000 | | |
| | | | | 19-2 | 022815-JCES-BF-R19-L2-C1 | 75 | 8.6 | 560,000 | |
| | R22 | 22 | Art classroom | 22-6 | 022815-JCES-BF-R22-L6-C1 | 68 | 3.7 | 280,000 | 12 |
| | | | | 022815-JCES-BF-R22-L6-C2 | 49 | 3.2 | 470,000 | | |
| | | | | 22-7 | 022815-JCES-BF-R22-L7-C1 | 30 | 1.3 | 220,000 | |
| | R23 | 23 | Overflow room/music room | 23-1 | 022815-JCES-BF-R23-L1-C1 | 79 | 4.8 | 350,000 | 13 |
| | | | | 022815-JCES-BF-R23-L1-C2 | 5 | 1.3 | 440,000 | | |
| | | | | 23-2 | 022815-JCES-BF-R23-L2-C1 | 45 | 3.3 | 280,000 | |
| | | | | 23-3 | 022815-JCES-BF-R23-L3-C1 | 66 | 2.7 | 180,000 | |

Note:

- Analytical report (1503051) was provided by the laboratory, ALS Environmental. Samples were analyzed by USEPA Method 8082.
- DVR (33878 - Level IV validation) was provided by LDC. The %R for the laboratory control samples were slightly higher than the QC limits of 50-130% affecting all TCL compounds, which were detected (J qualified).
- All yellow highlighted cells with bold text have total PCB concentrations exceeding 50 parts per million (ppm), which is defined and regulated as an "unauthorized use" under the United States Environmental Protection Agency (USEPA) Toxic Substances Control Act (TSCA) 40 CFR 761.

Abbreviations:

- cm = centimeters
- g = grams
- ID = identification
- J = Indicates an estimated value
- JCES = Juan Cabrillo Elementary School
- mg/kg = milligrams per kilogram
- MHS = Malibu High School
- NA = not applicable, not identified
- ppm = parts per million
- PTA = parent teacher association
- QC = quality control
- TCL = target compound list
- TSCA = Toxic Substances Control Act
- USEPA = United States Environmental Protection Agency

Figures

203

205

207

Legend

-  Window
-  Door

Notes:
1. Window and door dimensions are approximate.



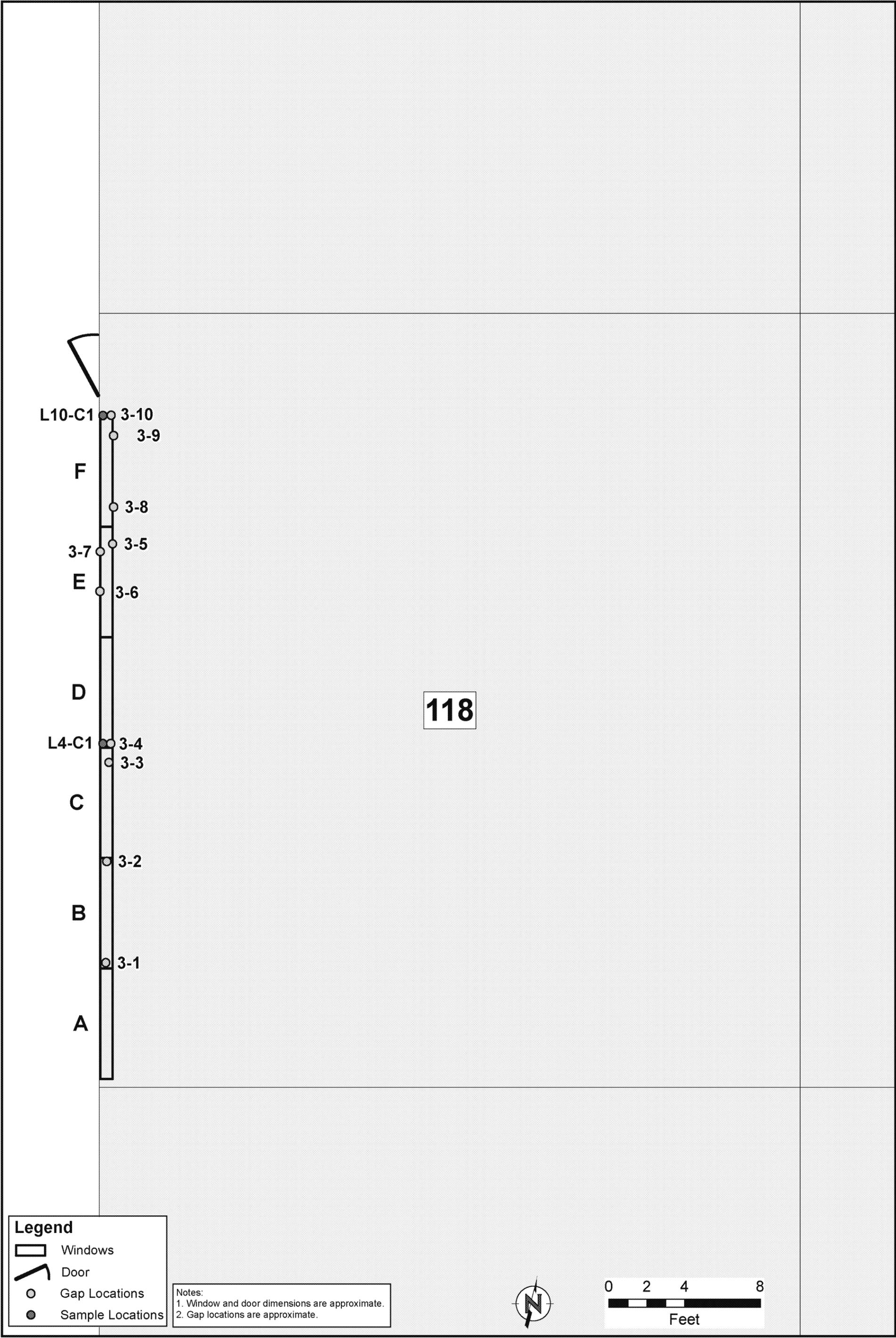

DRAFTED BY: RRH Date: 2/11/2015

**Inspection of Room 205 in
Second Floor of Building D (200, Mako Shark) at MHS**
Malibu High School
30215 Morning View Drive, Malibu, California

**Figure
1**

PROJECT: 0433980N

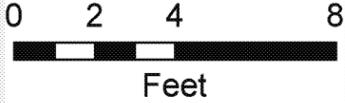
Path: \\lvina06\EDMS_Irvine\01_Projects\Malibu High School\03_GIS\Room Inspection\Fig1_MHS_D_200_Room205_Inspection.mxd



Legend

- Windows
- Door
- Gap Locations
- Sample Locations

Notes:
 1. Window and door dimensions are approximate.
 2. Gap locations are approximate.





7-2
L2-C1

F

E

D

122

L1-C1
7-1

C

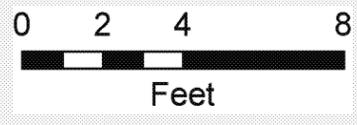
B

A

Legend

-  Windows
-  Door
-  Gap Locations
-  Sample Locations

Notes:
 1. Window and door dimensions are approximate.
 2. Gap locations are approximate.



**Caulk Inspection and Sampling of Room 7
 in Building E (000, Blue Shark) at MHS**

**Figure
 3**

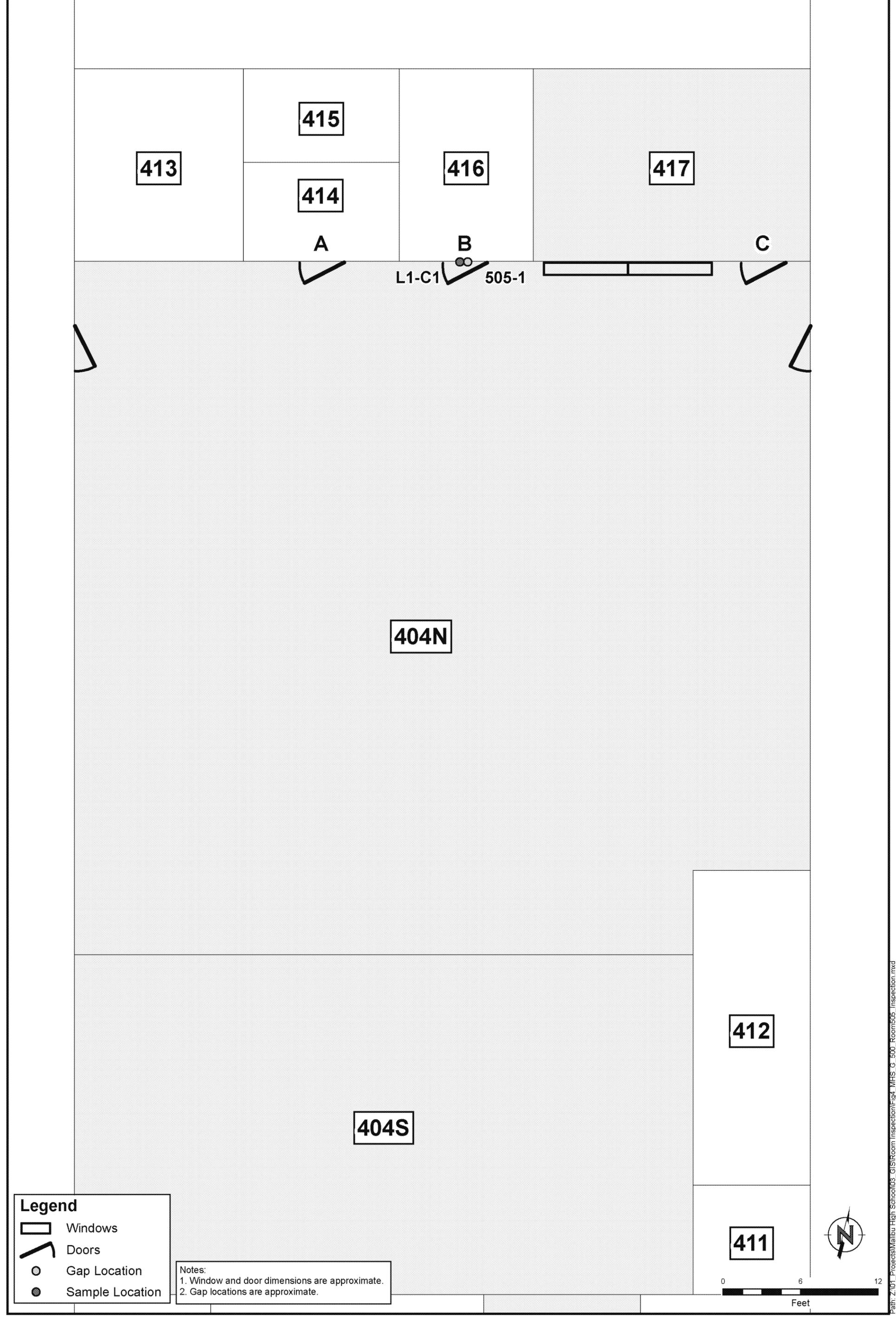
DRAFTED BY: RRH

Date: 3/12/2015

Malibu High School
 30215 Morning View Drive, Malibu, California

PROJECT: 0433980P

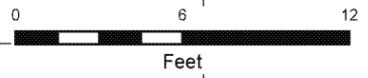
Path: \\irvine\edms\irvine\01_P\Projects\Malibu High School\03_GIS\Room Inspection\Fig3_MHS_E_000_Room7_Inspection.mxd



Legend

- Windows
- Doors
- Gap Location
- Sample Location

Notes:
 1. Window and door dimensions are approximate.
 2. Gap locations are approximate.



ENVIRON

DRAFTED BY: RRH Date: 3/18/2015

Caulk Inspection and Sampling of Room 505 in Building G (500, Angel Shark) at MHS

Malibu High School
 30215 Morning View Drive, Malibu, California

Figure 4

PROJECT: 0433980P



Legend

-  Windows
-  Doors
-  Gap Location
-  Sample Location

Notes:
 1. Window and door dimensions are approximate.
 2. Gap locations are approximate.



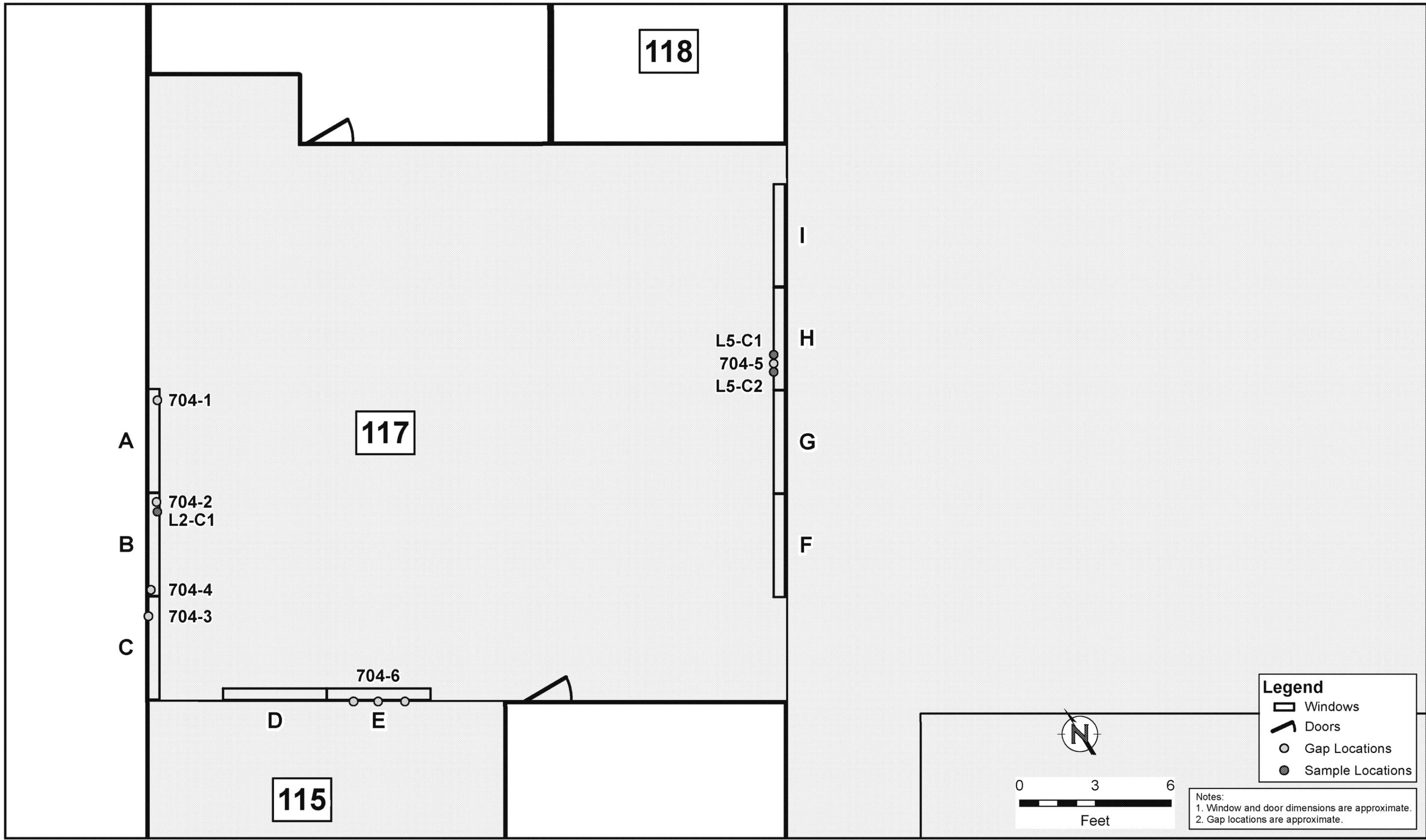
DRAFTED BY: RRH Date: 3/12/2015

Caulk Inspection and Sampling of Room 401 in
 Building I (400, Leopard Shark) at MHS
 Malibu High School
 30215 Morning View Drive, Malibu, California

Figure
5

PROJECT: 0433980P

Path: \\Irvine06\EDMS_Irvine01_Projects\Malibu High School\03_GIS\Room Inspection\Fig_400_Room401_Inspection.mxd



DRAFTED BY: RRH

Date: 3/12/2015

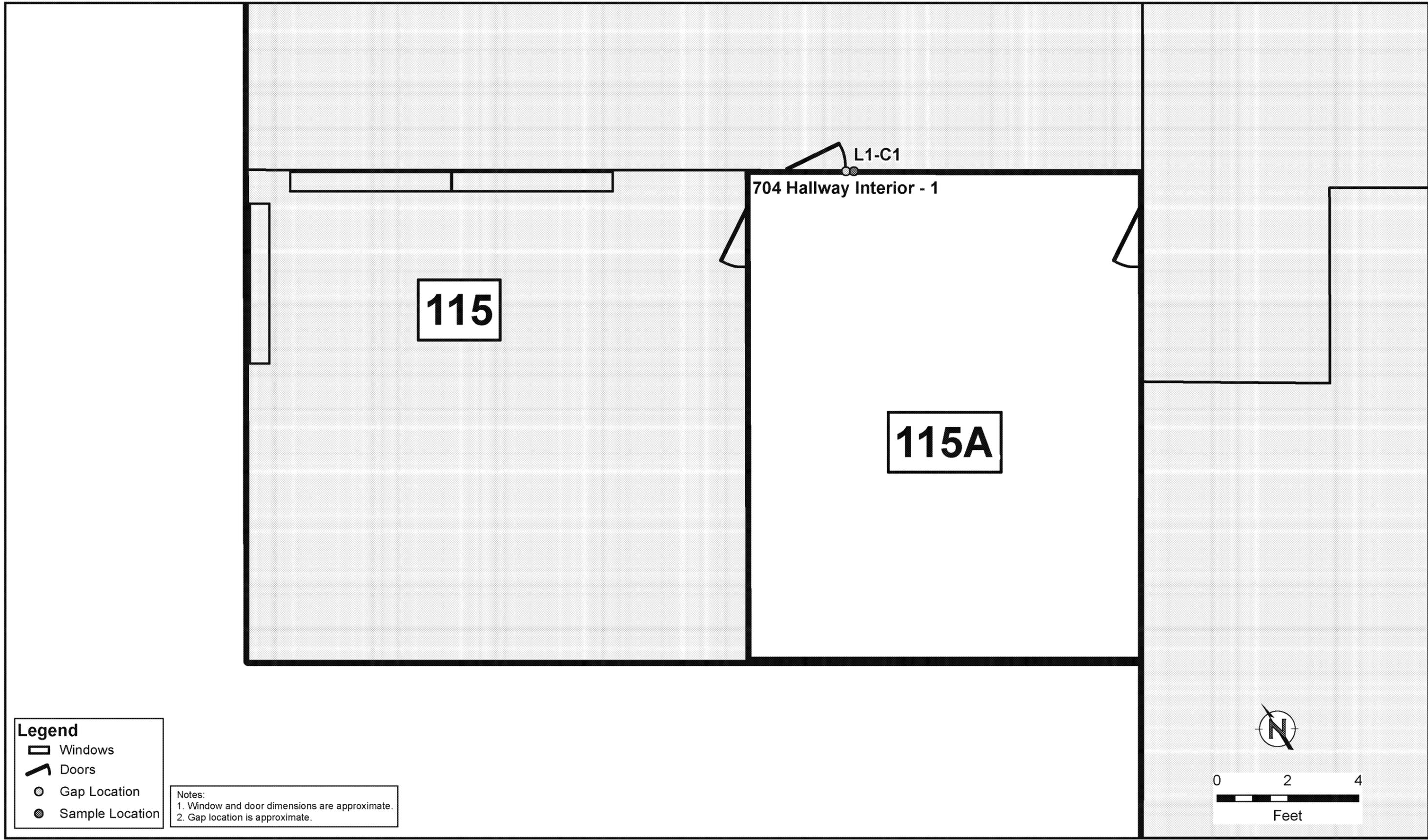
Caulk Inspection and Sampling of Room 704 in Building J (700, Old Gymnasium) at MHS

Malibu High School
30215 Morning View Drive, Malibu, California

Figure

6

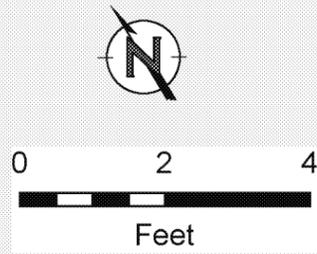
PROJECT: 0433980P



Legend

-  Windows
-  Doors
-  Gap Location
-  Sample Location

Notes:
 1. Window and door dimensions are approximate.
 2. Gap location is approximate.



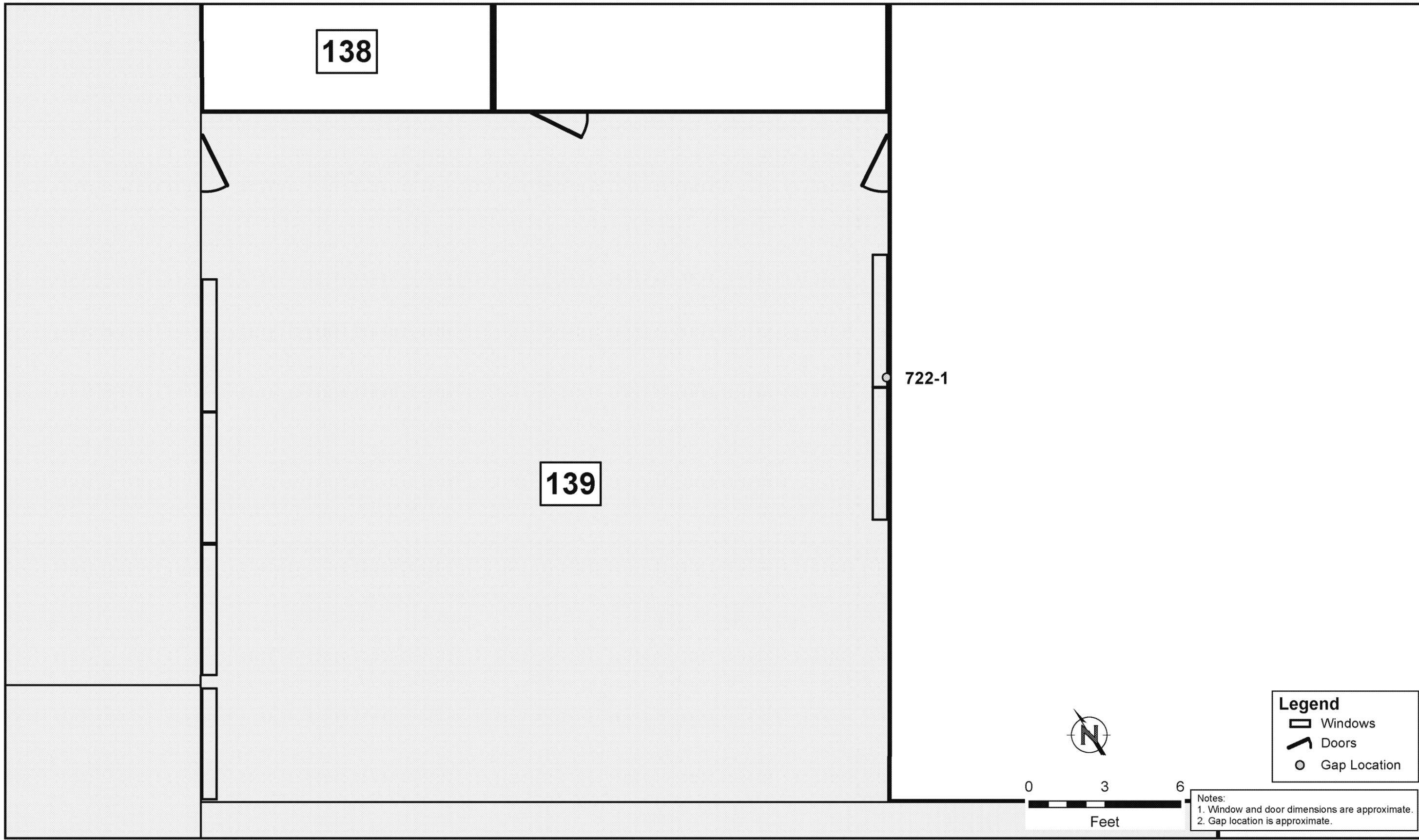
0 2 4
 Feet



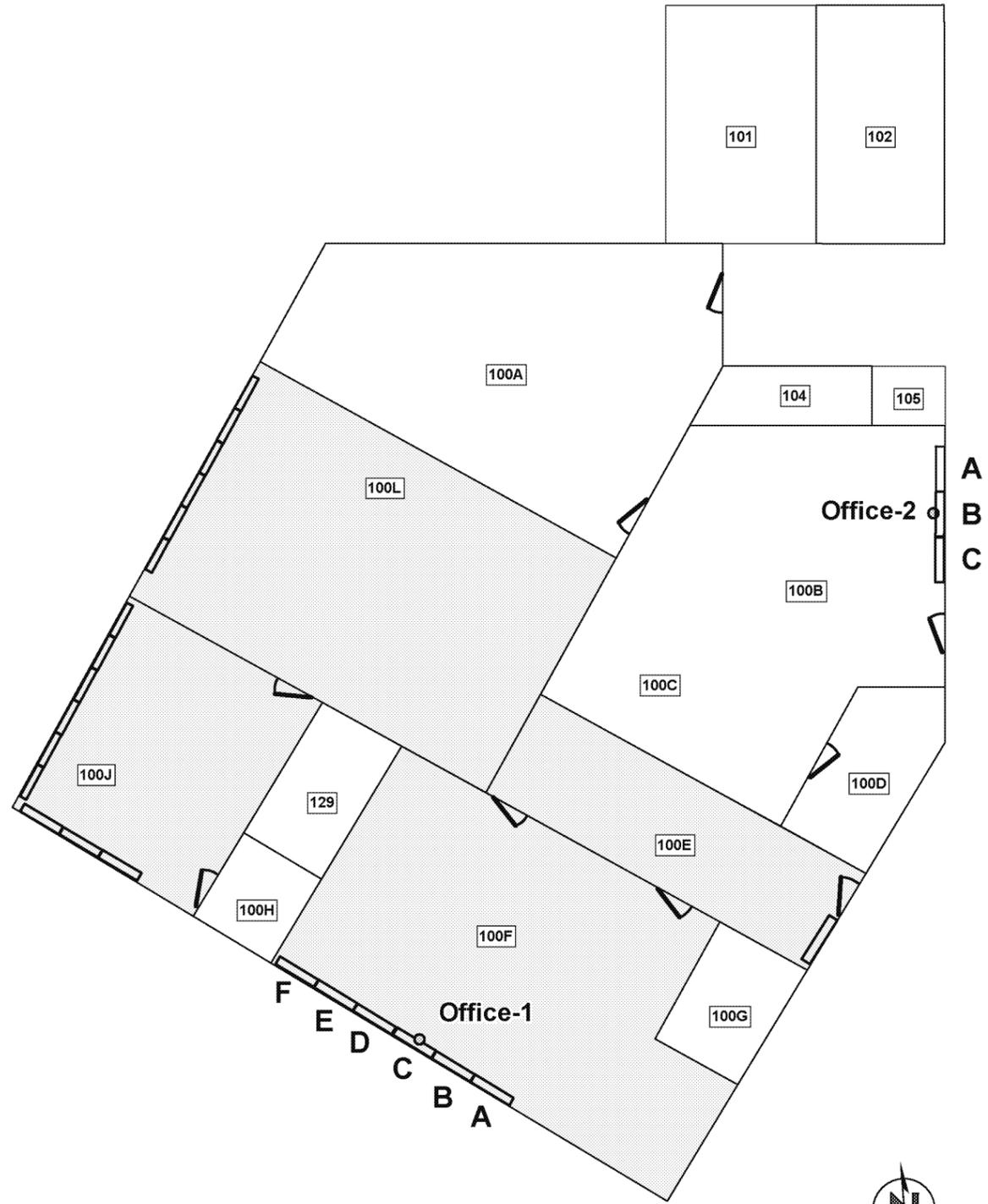
Caulk Inspection and Sampling of Room 705 and Room 704 Hallway in Building J (700, Old Gymnasium) at MHS

Malibu High School
 30215 Morning View Drive, Malibu, California

Figure
 7



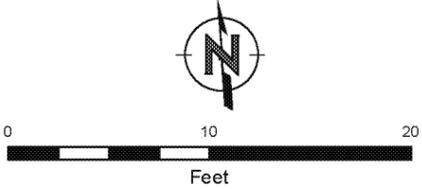
Notes:
 1. Window and door dimensions are approximate.
 2. Gap location is approximate.



Legend

- Windows
- Doors
- Gap Locations

Notes:
 1. Window and door dimensions are approximate.
 2. Gap locations are approximate.



Inspection of Building A at JCES

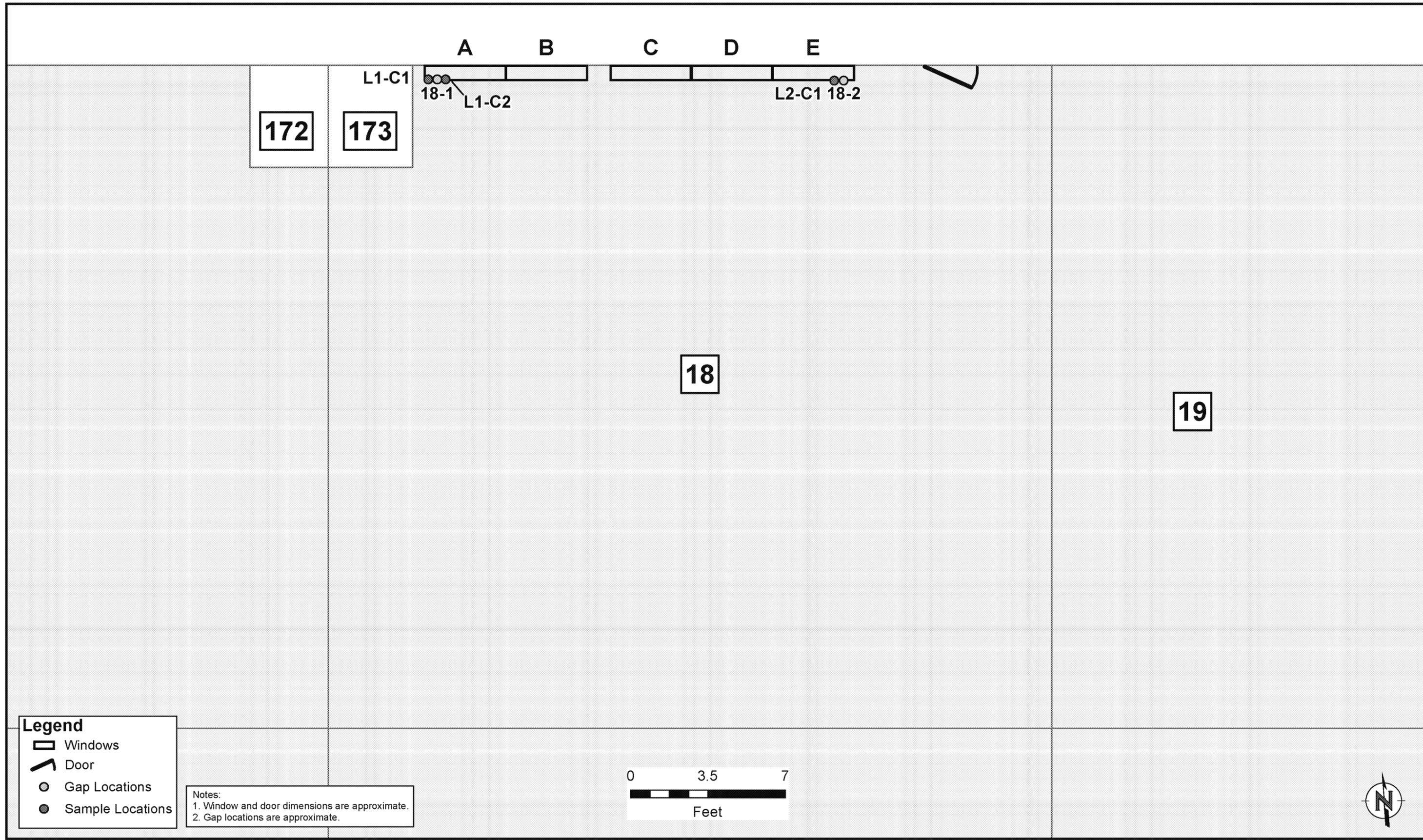
Juan Cabrillo Elementary School
 30237 Morning View Drive, Malibu, California

Figure
 9

DRAFTED BY: RRH Date: 2/12/2015

PROJECT: 0433980P

Path: \\Irvine06\EDMS_Irvine\01_Projects\Malibu High School\03_GIS\Room Inspection\Fig11_JCES_A_OfficeInspection.mxd



Caulk Inspection and Sampling of Room 18 in Building F at JCES

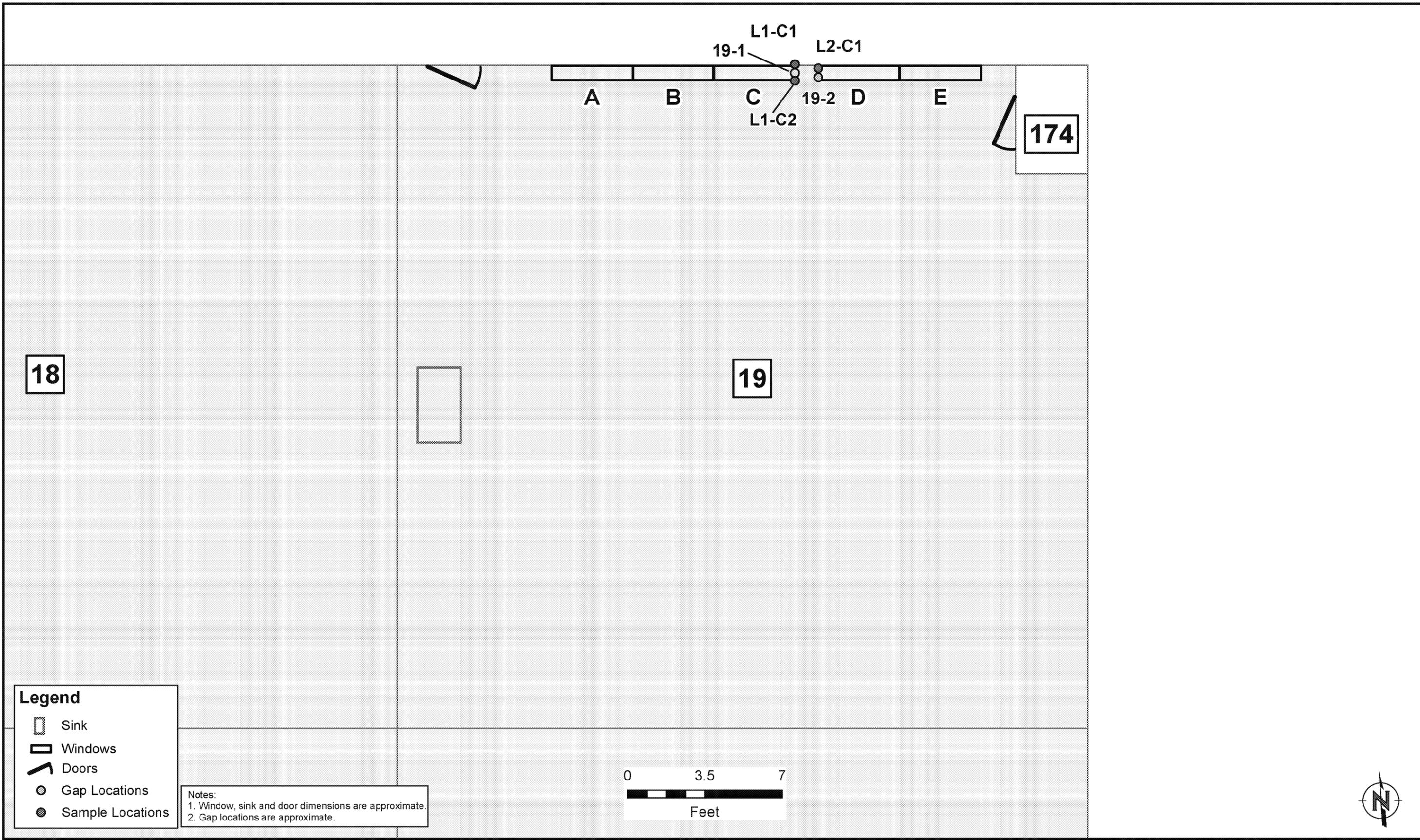
Juan Cabrillo Elementary School
30237 Morning View Drive, Malibu, California

Figure
10

DRAFTED BY: RRH

Date: 3/12/2015

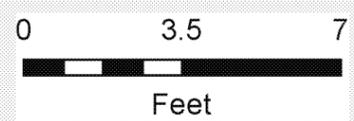
PROJECT: 0433980P



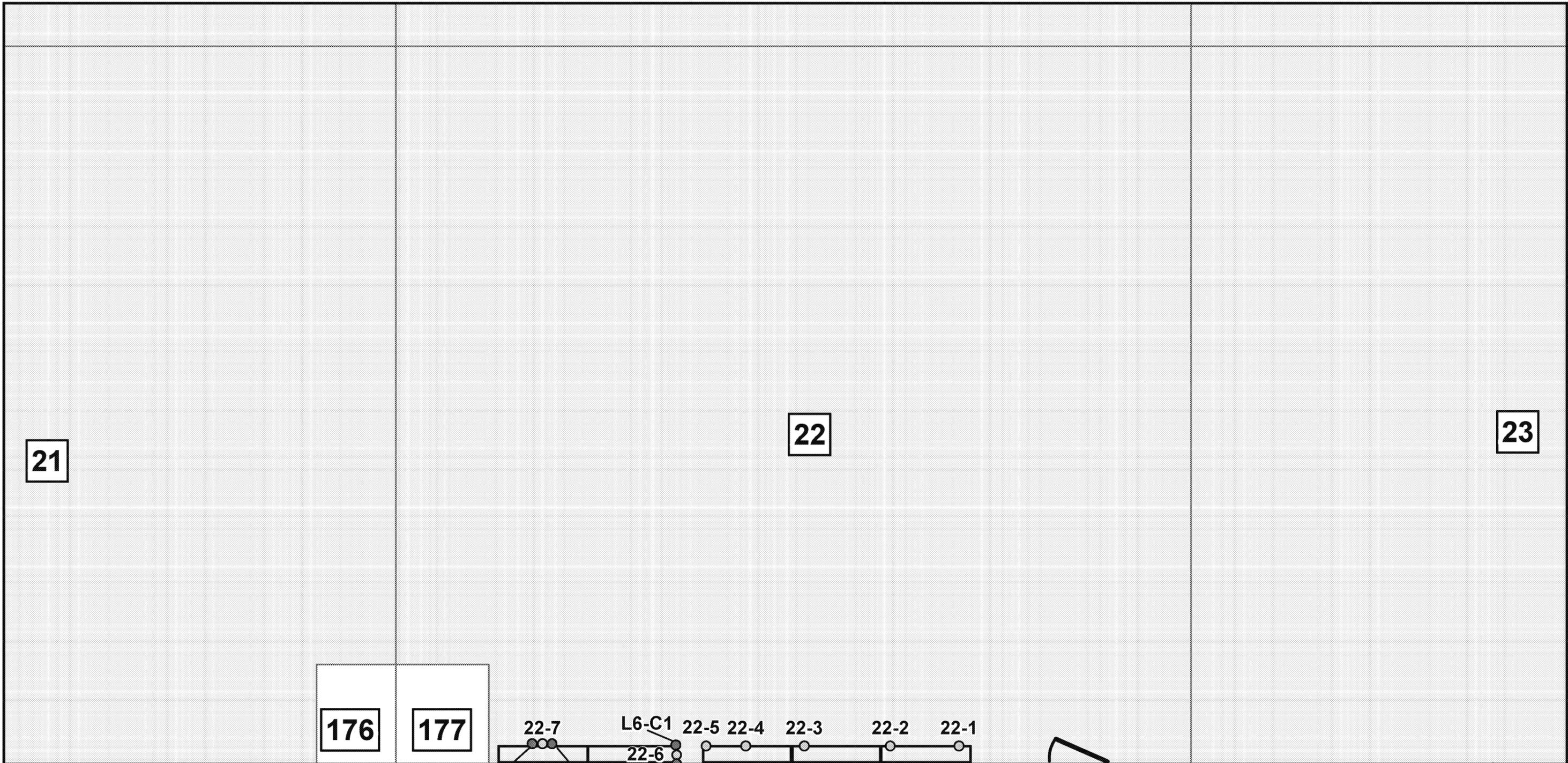
Legend

- Sink
- Windows
- Doors
- Gap Locations
- Sample Locations

Notes:
 1. Window, sink and door dimensions are approximate.
 2. Gap locations are approximate.



Path: \\irvine06\EDMS_Irvine\01_Projects\Malibu_High_School\03_GIS\Room_Inspection\Fig14_JCES_F_Room19_Inspection.mxd



21

22

23

176

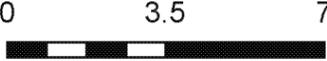
177

22-7
L7-C2 E L7-C1 D L6-C1 22-6 L6-C2 C 22-5 22-4 22-3 B 22-2 A 22-1

Legend

-  Windows
-  Door
-  Gap Locations
-  Sample Locations

Notes:
 1. Window and door dimensions are approximate.
 2. Gap locations are approximate.

0 3.5 7
Feet

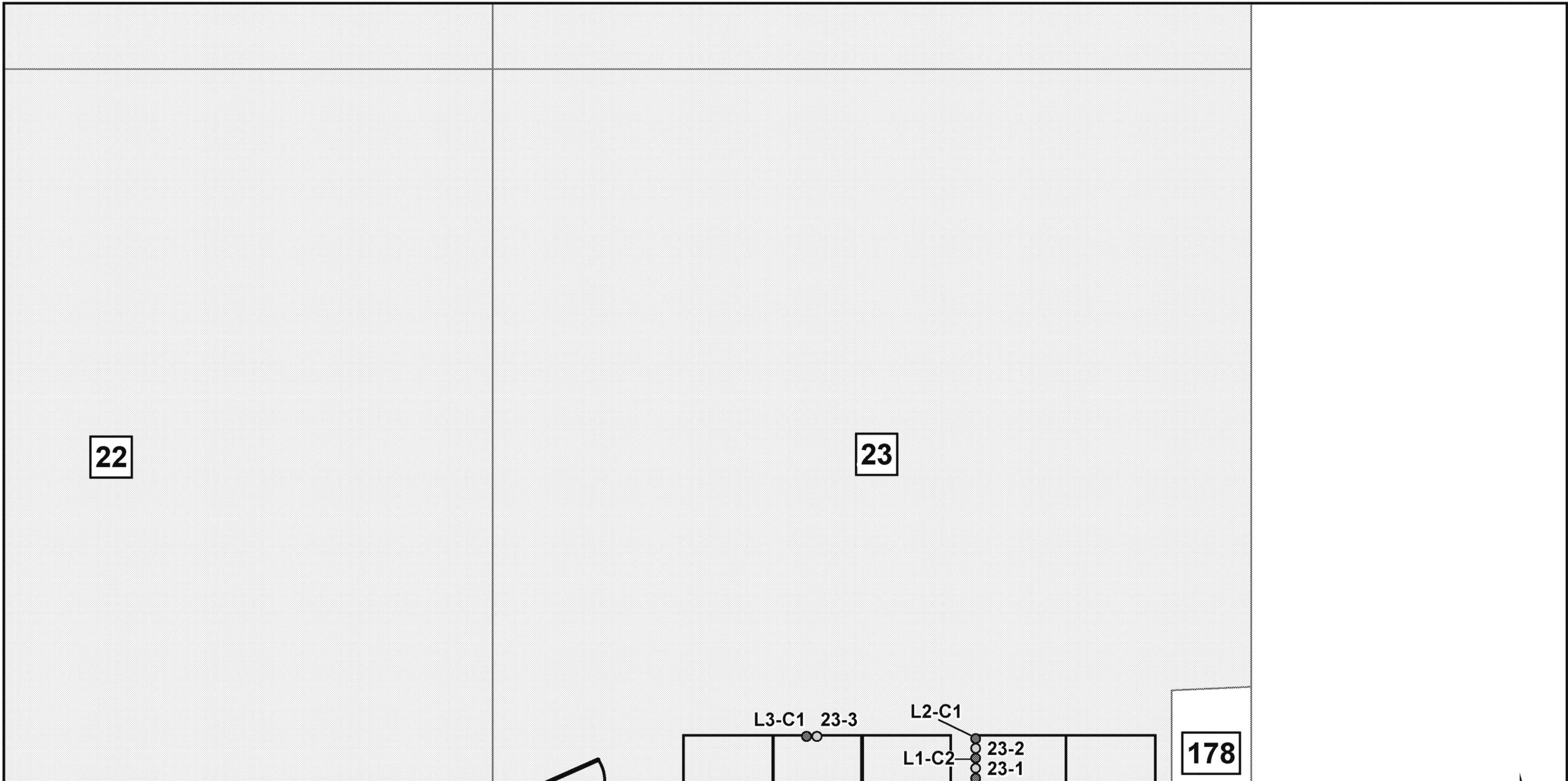


Caulk Inspection and Sampling of Room 22 in Building F at JCES

Juan Cabrillo Elementary School
 30237 Morning View Drive, Malibu, California

Figure
12

Path: \\irvine06\EDMS_Irvine\A1_Projects\Malibu_High_School\03_GIS\Room_Inspection\Fig15_JCES_F_Room22_Inspection.mxd



Legend

- Windows
- Door
- Gap Locations
- Sample Locations

Notes:
 1. Window and door dimensions are approximate.
 2. Gap locations are approximate.

0 3.5 7
 Feet

ENVIRON

DRAFTED BY: RRH Date: 3/18/2015

Caulk Inspection and Sampling of Room 23 in Building F at JCES

Juan Cabrillo Elementary School
 30237 Morning View Drive, Malibu, California

Figure 13

PROJECT: 0433980P

Path: Z:\01_Projects\Malibu High School\03_GIS\Room Inspection\Fig16_JCES_F_Room23_Inspection.mxd

Attachment A
Third Party Reported Bulk Sampling for PCBs Laboratory Reports

Appendix A.1

**Third Party Reported Results
BC Laboratories Report
June 19, 2014**



Date of Report: 06/19/2014

Brad Silverbush

Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Client Project: [REDACTED]
BCL Project: 8081
BCL Work Order: 1413266
Invoice ID: B176092

Enclosed are the results of analyses for samples received by the laboratory on 6/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



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White Copy - Report

Yellow Copy - Laboratory

Pink Copy - Originator

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

FAL USE ONLY

Laboratory Project No.:
Temperature: °C

Frontier Analytical Laboratory
5172 Hillside Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999



Form containing sections: CLIENT INFORMATION, INVOICE INFORMATION, REPORT DISTRIBUTION, REPORT INFORMATION, ADDITIONAL INSTRUCTIONS, and a table with columns for Sample ID, Date, Time, Matrix, and Remarks.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: 14-13266

| | | | |
|---|--|---|--|
| SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input type="checkbox"/> Other <input checked="" type="checkbox"/> (Specify) <u>Q50</u> | | SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____ | FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> |
|---|--|---|--|

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.97 Container: amber glass Thermometer ID: 207 Date/Time: 6/13/14 10:20
 Temperature: (A) 7.4 °C (IC) 7.5 °C Analyst Init: MEM

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|------------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| QT GENERAL MINERAL/GENERAL | | | | | | | | | | |
| PT PE UNPRESERVED | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| PT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE /NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT TOX | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | () | () | () | () | () | () | () | () | () | () |
| QT EPA 413.1, 413.2, 418.1 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz Amber EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 632 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT AMBER | | | | | | | | | | |
| 1/2 OZ. JAR | A | A | A | A | A | A | A | A | A | A |
| 32 OZ. JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| Summa Canister | | | | | | | | | | |

Comments: _____
 Sample Numbering Completed By: Or Date/Time: 6/13/14 12:58
 A = Actual / C = Corrected

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 14-13266

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other (Specify) GSO. SHIPPING CONTAINER: Ice Chest, None, Box, Other (Specify). FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

All samples received? Yes, No. All samples containers intact? Yes, No. Description(s) match COC? Yes, No.

COC Received: YES, NO. Emissivity: 0.97. Container: amber glass. Thermometer ID: 207. Date/Time: 6/13/14 12:00. Temperature: (A) 7.4 C, (C) 7.5 C. Analyst Init: MEM

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 6/13/14 12:00 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16 A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



14-13266

Tina Green

From: **STUART BUTTRAM <stuart@bclabs.com>**
 Organization: **BC Laboratories**
 To: **Brad Silverbush <brads@frontieranalytical.com>**
 Date sent: **Thu, 12 Jun 2014 10:11:42 -0800**
 Subject: **RE: (Fwd) RE: Analysis**
 Send reply to: **<stuart@bclabs.com>**
 Copies to: **<tina@bclabs.com>**

Brad:
 Yes, yes, yes, yes, etc Send them for Friday delivery. The soil samples will need 8081 and 8082. For the soil samples requiring 8081, 8082 we will need 60 grams for normal reporting limits our solids reporting limits are 0.01mg/Kg for PCBs using 30 grams so you can do the math at how much we need to achieve 50. I would like to use at least 5 grams though. Tina can provide you a quote for the testing below. Tina Brad will need the 8081s full with our normal list plus alpha and gamma chlordanes.

Thanks
Stuart

On 12 Jun 2014 at 9:53, Brad Silverbush wrote:

- > Hi Stuart,
- >
- > Just got off a very long conversation with my client.
- >
- > In short here is what they are looking for:
- >
- > A PCB method to test caulk and/or soil. They are referencing TSCA so
- > they need well below 50ppm. At this point they don't care about the
- > individual congeners (although I think they will want to go back and
- > look at the 12 WHO dioxin-like eventually but that is neither here nor

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Frontier Analytical Laboratory
5172 Hillside Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | Receive Date: | Sampling Date: | Sample Depth: | Lab Matrix: | Sample Type: |
|------------|---------------------------|------------------|------------------|------------------|---------------|-------------|--------------|
| 1413266-01 | COC Number: | --- | 06/13/2014 10:20 | 05/10/2014 07:50 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | 8489-001-SA LL1 | | | | | |
| | Sampled By: | --- | | | | | |
| 1413266-02 | COC Number: | --- | 06/13/2014 10:20 | 05/10/2014 07:50 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | 8489-002-SA LL2 | | | | | |
| | Sampled By: | --- | | | | | |
| 1413266-03 | COC Number: | --- | 06/13/2014 10:20 | 05/10/2014 08:17 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | 8489-005-SA LL5 | | | | | |
| | Sampled By: | --- | | | | | |
| 1413266-04 | COC Number: | --- | 06/13/2014 10:20 | 05/10/2014 08:45 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | 8489-006-SA JJ1 | | | | | |
| | Sampled By: | --- | | | | | |
| 1413266-05 | COC Number: | --- | 06/13/2014 10:20 | 05/10/2014 09:38 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | 8489-011-SA BB5 | | | | | |
| | Sampled By: | --- | | | | | |
| 1413266-06 | COC Number: | --- | 06/13/2014 10:20 | 05/10/2014 09:54 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | 8489-012-SA KK1 | | | | | |
| | Sampled By: | --- | | | | | |
| 1413266-07 | COC Number: | --- | 06/13/2014 10:20 | 05/10/2014 10:20 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | 8489-013-SA JJC1 | | | | | |
| | Sampled By: | --- | | | | | |

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Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|------------|---------------------------|------------------|----------------|------------------|
| 1413266-08 | COC Number: | --- | Receive Date: | 06/13/2014 10:20 |
| | Project Number: | --- | Sampling Date: | 05/10/2014 10:35 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | 8489-015-SA JJC3 | Lab Matrix: | Solids |
| | Sampled By: | --- | Sample Type: | Soil |
| 1413266-09 | COC Number: | --- | Receive Date: | 06/13/2014 10:20 |
| | Project Number: | --- | Sampling Date: | 05/10/2014 11:25 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | 8490-003-SA SS1 | Lab Matrix: | Solids |
| | Sampled By: | --- | Sample Type: | Soil |
| 1413266-10 | COC Number: | --- | Receive Date: | 06/13/2014 10:20 |
| | Project Number: | --- | Sampling Date: | 05/10/2014 11:30 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | 8490-004-SA ART | Lab Matrix: | Solids |
| | Sampled By: | --- | Sample Type: | Soil |
| 1413266-11 | COC Number: | --- | Receive Date: | 06/13/2014 10:20 |
| | Project Number: | --- | Sampling Date: | 05/10/2014 11:45 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | 8490-006-SA WW2 | Lab Matrix: | Solids |
| | Sampled By: | --- | Sample Type: | Soil |
| 1413266-12 | COC Number: | --- | Receive Date: | 06/13/2014 10:20 |
| | Project Number: | --- | Sampling Date: | 05/12/2014 07:45 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | 8490-009-SA AJ1 | Lab Matrix: | Solids |
| | Sampled By: | --- | Sample Type: | Soil |

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: XXXXXXXXXX
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

| BCL Sample ID: 1413266-01 | | Client Sample Name: 8489-001-SA LL1, 5/10/2014 7:50:00AM | | | | | | |
|--------------------------------|-----------|--|----------------------|-------------|------------------|-----------|-----------|----------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| PCB-1016 | ND | mg/kg | 1.8 | 0.48 | EPA-8082A | ND | | 1 |
| PCB-1221 | ND | mg/kg | 1.8 | 0.67 | EPA-8082A | ND | | 1 |
| PCB-1232 | ND | mg/kg | 1.8 | 0.42 | EPA-8082A | ND | | 1 |
| PCB-1242 | ND | mg/kg | 1.8 | 0.71 | EPA-8082A | ND | | 1 |
| PCB-1248 | ND | mg/kg | 1.8 | 0.46 | EPA-8082A | ND | | 1 |
| PCB-1254 | 12 | mg/kg | 1.8 | 0.56 | EPA-8082A | ND | | 1 |
| PCB-1260 | ND | mg/kg | 1.8 | 0.28 | EPA-8082A | ND | | 1 |
| Total PCB's (Summation) | 12 | mg/kg | 1.8 | 0.88 | EPA-8082A | ND | | 1 |
| Decachlorobiphenyl (Surrogate) | 100 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 09:05 | VH1 | GC-15 | 176.47 | BXF1322 |

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Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-02 Client Sample Name: 8489-002-SA LL2, 5/10/2014 7:50:00AM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quafs | Run # |
|--------------------------------|--------|-------|----------------------|-----|-----------|---------|-----------|-------|
| PCB-1016 | ND | mg/kg | 20 | 5.4 | EPA-8082A | ND | A01 | 1 |
| PCB-1221 | ND | mg/kg | 20 | 7.6 | EPA-8082A | ND | A01 | 1 |
| PCB-1232 | ND | mg/kg | 20 | 4.8 | EPA-8082A | ND | A01 | 1 |
| PCB-1242 | ND | mg/kg | 20 | 8.0 | EPA-8082A | ND | A01 | 1 |
| PCB-1248 | ND | mg/kg | 20 | 5.2 | EPA-8082A | ND | A01 | 1 |
| PCB-1254 | 190 | mg/kg | 20 | 6.4 | EPA-8082A | ND | A01 | 1 |
| PCB-1260 | ND | mg/kg | 20 | 3.2 | EPA-8082A | ND | A01 | 1 |
| Total PCB's (Summation) | 190 | mg/kg | 20 | 10 | EPA-8082A | ND | A01 | 1 |
| Decachlorobiphenyl (Surrogate) | 0 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | A01,A17 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 11:49 | VH1 | GC-15 | 2000 | BXF1322 |

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El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

| BCL Sample ID: | 1413266-03 | Client Sample Name: | 8489-005-SA LL5, 5/10/2014 8:17:00AM | | | | | |
|--------------------------------|------------|---------------------|--------------------------------------|-------------|------------------|-----------|-----------|----------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| PCB-1016 | ND | mg/kg | 0.20 | 0.054 | EPA-8082A | ND | | 1 |
| PCB-1221 | ND | mg/kg | 0.20 | 0.076 | EPA-8082A | ND | | 1 |
| PCB-1232 | ND | mg/kg | 0.20 | 0.048 | EPA-8082A | ND | | 1 |
| PCB-1242 | ND | mg/kg | 0.20 | 0.080 | EPA-8082A | ND | | 1 |
| PCB-1248 | ND | mg/kg | 0.20 | 0.052 | EPA-8082A | ND | | 1 |
| PCB-1254 | 1.8 | mg/kg | 0.20 | 0.064 | EPA-8082A | ND | | 1 |
| PCB-1260 | ND | mg/kg | 0.20 | 0.032 | EPA-8082A | ND | | 1 |
| Total PCB's (Summation) | 1.8 | mg/kg | 0.20 | 0.10 | EPA-8082A | ND | | 1 |
| Decachlorobiphenyl (Surrogate) | 95.0 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 09:27 | VH1 | GC-15 | 20 | BXF1322 |

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| | |
|---|---|
| Frontier Analytical Laboratory 5172 Hillside Circle El Dorado Hills, CA 95762 | Reported: 06/19/2014 16:13 Project: 8081 Project Number: [REDACTED] Project Manager: Brad Silverbush |
|---|---|

PCB Analysis (EPA Method 8082A)

| BCL Sample ID: | 1413266-04 | Client Sample Name: | 8489-006-SA JJ1, 5/10/2014 8:45:00AM | | | | | |
|--------------------------------|------------|---------------------|--------------------------------------|-------------|------------------|-----------|------------|----------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quais | Run # |
| PCB-1016 | ND | mg/kg | 1.6 | 0.43 | EPA-8082A | ND | A01 | 1 |
| PCB-1221 | ND | mg/kg | 1.6 | 0.60 | EPA-8082A | ND | A01 | 1 |
| PCB-1232 | ND | mg/kg | 1.6 | 0.38 | EPA-8082A | ND | A01 | 1 |
| PCB-1242 | ND | mg/kg | 1.6 | 0.63 | EPA-8082A | ND | A01 | 1 |
| PCB-1248 | ND | mg/kg | 1.6 | 0.41 | EPA-8082A | ND | A01 | 1 |
| PCB-1254 | 9.7 | mg/kg | 1.6 | 0.51 | EPA-8082A | ND | A01 | 1 |
| PCB-1260 | ND | mg/kg | 1.6 | 0.25 | EPA-8082A | ND | A01 | 1 |
| Total PCB's (Summation) | 9.7 | mg/kg | 1.6 | 0.79 | EPA-8082A | ND | A01 | 1 |
| Decachlorobiphenyl (Surrogate) | 100 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | A01 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 09:38 | VH1 | GC-15 | 157.89 | BXF1322 |

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

BCL Sample ID: 1413266-05 Client Sample Name: 8489-011-SA BB5, 5/10/2014 9:38:00AM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|--------------------------------|--------|-------|----------------------|---------|-----------|---------|-----------|-------|
| Aldrin | ND | mg/kg | 0.0029 | 0.00015 | EPA-8081B | ND | A11,A26 | 1 |
| alpha-BHC | ND | mg/kg | 0.0029 | 0.00081 | EPA-8081B | ND | A11,A26 | 1 |
| beta-BHC | ND | mg/kg | 0.0029 | 0.0022 | EPA-8081B | ND | A11,A26 | 1 |
| delta-BHC | ND | mg/kg | 0.0029 | 0.00044 | EPA-8081B | ND | A11,A26 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0029 | 0.0014 | EPA-8081B | ND | A11,A26 | 1 |
| alpha-Chlordane | ND | mg/kg | 0.0029 | 0.00050 | EPA-8081B | ND | A11,A26 | 1 |
| gamma-Chlordane | ND | mg/kg | 0.0029 | 0.00036 | EPA-8081B | ND | A11,A26 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.29 | 0.087 | EPA-8081B | ND | A11,A26 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0029 | 0.00036 | EPA-8081B | ND | A11,A26 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0029 | 0.00026 | EPA-8081B | ND | A11,A26 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0029 | 0.00018 | EPA-8081B | ND | A11,A26 | 1 |
| Dieldrin | ND | mg/kg | 0.0029 | 0.00018 | EPA-8081B | ND | A11,A26 | 1 |
| Endosulfan I | ND | mg/kg | 0.0029 | 0.00050 | EPA-8081B | ND | A11,A26 | 1 |
| Endosulfan II | ND | mg/kg | 0.0029 | 0.00038 | EPA-8081B | ND | A11,A26 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0029 | 0.00075 | EPA-8081B | ND | A11,A26 | 1 |
| Endrin | ND | mg/kg | 0.0029 | 0.00020 | EPA-8081B | ND | A11,A26 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0029 | 0.00035 | EPA-8081B | ND | A11,A26 | 1 |
| Heptachlor | ND | mg/kg | 0.0029 | 0.0015 | EPA-8081B | ND | A11,A26 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0029 | 0.00087 | EPA-8081B | ND | A11,A26 | 1 |
| Methoxychlor | ND | mg/kg | 0.0029 | 0.00075 | EPA-8081B | ND | A11,A26 | 1 |
| Toxaphene | ND | mg/kg | 0.29 | 0.043 | EPA-8081B | ND | A11,A26 | 1 |
| TCMX (Surrogate) | 93.1 | % | 20 - 140 (LCL - UCL) | | EPA-8081B | | A11,A26 | 1 |
| Decachlorobiphenyl (Surrogate) | 102 | % | 20 - 140 (LCL - UCL) | | EPA-8081B | | A11,A26 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8081B | 06/13/14 | 06/16/14 14:09 | VH1 | GC-14 | 5.769 | BXF1329 |

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-05 Client Sample Name: 8489-011-SA BB5, 5/10/2014 9:38:00AM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|--------------------------------|------------|--------------|----------------------|-------------|------------------|-----------|------------|----------|
| PCB-1016 | ND | mg/kg | 0.29 | 0.079 | EPA-8082A | ND | A01 | 1 |
| PCB-1221 | ND | mg/kg | 0.29 | 0.11 | EPA-8082A | ND | A01 | 1 |
| PCB-1232 | ND | mg/kg | 0.29 | 0.071 | EPA-8082A | ND | A01 | 1 |
| PCB-1242 | ND | mg/kg | 0.29 | 0.12 | EPA-8082A | ND | A01 | 1 |
| PCB-1248 | ND | mg/kg | 0.29 | 0.076 | EPA-8082A | ND | A01 | 1 |
| PCB-1254 | 2.7 | mg/kg | 0.29 | 0.094 | EPA-8082A | ND | A01 | 1 |
| PCB-1260 | ND | mg/kg | 0.29 | 0.047 | EPA-8082A | ND | A01 | 1 |
| Total PCB's (Summation) | 2.7 | mg/kg | 0.29 | 0.15 | EPA-8082A | ND | A01 | 1 |
| Decachlorobiphenyl (Surrogate) | 125 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | A01 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 09:49 | VH1 | GC-15 | 29.412 | BXF1322 |

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El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

BCL Sample ID: 1413266-06 Client Sample Name: 8489-012-SA KK1, 5/10/2014 9:54:00AM

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|--------------------------------|--------|-------|----------------------|---------|-----------|---------|-----------|-------|
| Aldrin | ND | mg/kg | 0.0027 | 0.00014 | EPA-8081B | ND | A11,A26 | 1 |
| alpha-BHC | ND | mg/kg | 0.0027 | 0.00076 | EPA-8081B | ND | A11,A26 | 1 |
| beta-BHC | ND | mg/kg | 0.0027 | 0.0021 | EPA-8081B | ND | A11,A26 | 1 |
| delta-BHC | ND | mg/kg | 0.0027 | 0.00041 | EPA-8081B | ND | A11,A26 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0027 | 0.0014 | EPA-8081B | ND | A11,A26 | 1 |
| alpha-Chlordane | ND | mg/kg | 0.0027 | 0.00047 | EPA-8081B | ND | A11,A26 | 1 |
| gamma-Chlordane | ND | mg/kg | 0.0027 | 0.00034 | EPA-8081B | ND | A11,A26 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.27 | 0.082 | EPA-8081B | ND | A11,A26 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0027 | 0.00034 | EPA-8081B | ND | A11,A26 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0027 | 0.00025 | EPA-8081B | ND | A11,A26 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0027 | 0.00017 | EPA-8081B | ND | A11,A26 | 1 |
| Dieldrin | ND | mg/kg | 0.0027 | 0.00017 | EPA-8081B | ND | A11,A26 | 1 |
| Endosulfan I | ND | mg/kg | 0.0027 | 0.00047 | EPA-8081B | ND | A11,A26 | 1 |
| Endosulfan II | ND | mg/kg | 0.0027 | 0.00036 | EPA-8081B | ND | A11,A26 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0027 | 0.00071 | EPA-8081B | ND | A11,A26 | 1 |
| Endrin | ND | mg/kg | 0.0027 | 0.00019 | EPA-8081B | ND | A11,A26 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0027 | 0.00033 | EPA-8081B | ND | A11,A26 | 1 |
| Heptachlor | ND | mg/kg | 0.0027 | 0.0014 | EPA-8081B | ND | A11,A26 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0027 | 0.00082 | EPA-8081B | ND | A11,A26 | 1 |
| Methoxychlor | ND | mg/kg | 0.0027 | 0.00071 | EPA-8081B | ND | A11,A26 | 1 |
| Toxaphene | ND | mg/kg | 0.27 | 0.040 | EPA-8081B | ND | A11,A26 | 1 |
| TCMX (Surrogate) | 98.0 | % | 20 - 140 (LCL - UCL) | | EPA-8081B | | A11,A26 | 1 |
| Decachlorobiphenyl (Surrogate) | 87.9 | % | 20 - 140 (LCL - UCL) | | EPA-8081B | | A11,A26 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8081B | 06/13/14 | 06/16/14 14:23 | VH1 | GC-14 | 5.455 | BXF1329 |

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5172 Hillside Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

| BCL Sample ID: | 1413266-06 | Client Sample Name: | 8489-012-SA KK1, 5/10/2014 9:54:00AM | | | | | |
|--------------------------------|------------|---------------------|--------------------------------------|-------------|------------------|-----------|------------|----------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| PCB-1016 | ND | mg/kg | 0.28 | 0.075 | EPA-8082A | ND | A01 | 1 |
| PCB-1221 | ND | mg/kg | 0.28 | 0.11 | EPA-8082A | ND | A01 | 1 |
| PCB-1232 | ND | mg/kg | 0.28 | 0.067 | EPA-8082A | ND | A01 | 1 |
| PCB-1242 | ND | mg/kg | 0.28 | 0.11 | EPA-8082A | ND | A01 | 1 |
| PCB-1248 | ND | mg/kg | 0.28 | 0.072 | EPA-8082A | ND | A01 | 1 |
| PCB-1254 | 2.0 | mg/kg | 0.28 | 0.089 | EPA-8082A | ND | A01 | 1 |
| PCB-1260 | ND | mg/kg | 0.28 | 0.044 | EPA-8082A | ND | A01 | 1 |
| Total PCB's (Summation) | 2.0 | mg/kg | 0.28 | 0.14 | EPA-8082A | ND | A01 | 1 |
| Decachlorobiphenyl (Surrogate) | 100 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | A01 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 10:00 | VH1 | GC-15 | 27.778 | BXF1322 |

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

| BCL Sample ID: | 1413266-07 | Client Sample Name: | 8489-013-SA JJC1, 5/10/2014 10:20:00AM | | | | | | |
|--------------------------------|---------------|---------------------|--|--------------|------------------|-----------|------------|----------|--|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # | |
| PCB-1016 | ND | mg/kg | 25000 | 6800 | EPA-8082A | ND | A01 | 1 | |
| PCB-1221 | ND | mg/kg | 25000 | 9500 | EPA-8082A | ND | A01 | 1 | |
| PCB-1232 | ND | mg/kg | 25000 | 6000 | EPA-8082A | ND | A01 | 1 | |
| PCB-1242 | ND | mg/kg | 25000 | 10000 | EPA-8082A | ND | A01 | 1 | |
| PCB-1248 | ND | mg/kg | 25000 | 6500 | EPA-8082A | ND | A01 | 1 | |
| PCB-1254 | 340000 | mg/kg | 25000 | 8000 | EPA-8082A | ND | A01 | 1 | |
| PCB-1260 | ND | mg/kg | 25000 | 4000 | EPA-8082A | ND | A01 | 1 | |
| Total PCB's (Summation) | 340000 | mg/kg | 25000 | 12000 | EPA-8082A | ND | A01 | 1 | |
| Decachlorobiphenyl (Surrogate) | 0 | % | 50 - 140 (LCL - UCL) | | | EPA-8082A | A01,A17 | 1 | |

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-8082A | 06/13/14 | 06/19/14 13:28 | VH1 | GC-15 | 2500000 | BXF1322 |

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| | |
|---|---|
| Frontier Analytical Laboratory 5172 Hillside Circle El Dorado Hills, CA 95762 | Reported: 06/19/2014 16:13 Project: 8081 Project Number: XXXXXXXXXX Project Manager: Brad Silverbush |
|---|---|

PCB Analysis (EPA Method 8082A)

| BCL Sample ID: | 1413266-08 | Client Sample Name: | 8489-015-SA JJC3, 5/10/2014 10:35:00AM | | | | | |
|--------------------------------|------------|---------------------|--|-------------|------------------|-----------|------------|----------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| PCB-1016 | ND | mg/kg | 1.0 | 0.27 | EPA-8082A | ND | A01 | 1 |
| PCB-1221 | ND | mg/kg | 1.0 | 0.38 | EPA-8082A | ND | A01 | 1 |
| PCB-1232 | ND | mg/kg | 1.0 | 0.24 | EPA-8082A | ND | A01 | 1 |
| PCB-1242 | ND | mg/kg | 1.0 | 0.40 | EPA-8082A | ND | A01 | 1 |
| PCB-1248 | ND | mg/kg | 1.0 | 0.26 | EPA-8082A | ND | A01 | 1 |
| PCB-1254 | 1.6 | mg/kg | 1.0 | 0.32 | EPA-8082A | ND | A01 | 1 |
| PCB-1260 | ND | mg/kg | 1.0 | 0.16 | EPA-8082A | ND | A01 | 1 |
| Total PCB's (Summation) | 1.6 | mg/kg | 1.0 | 0.50 | EPA-8082A | ND | A01 | 1 |
| Decachlorobiphenyl (Surrogate) | 125 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | A01 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 13:39 | VH1 | GC-15 | 100 | BXF1322 |

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Reported: 06/19/2014 16:13
Project: 8081
Project Number: XXXXXXXXXX
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

| BCL Sample ID: | 1413266-09 | Client Sample Name: | 8490-003-SA SS1, 5/10/2014 11:25:00AM | | | | | | |
|--------------------------------|------------|---------------------|---------------------------------------|-------------|------------------|-----------|------------|----------|--|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # | |
| PCB-1016 | ND | mg/kg | 1.7 | 0.45 | EPA-8082A | ND | A01 | 1 | |
| PCB-1221 | ND | mg/kg | 1.7 | 0.63 | EPA-8082A | ND | A01 | 1 | |
| PCB-1232 | ND | mg/kg | 1.7 | 0.40 | EPA-8082A | ND | A01 | 1 | |
| PCB-1242 | ND | mg/kg | 1.7 | 0.67 | EPA-8082A | ND | A01 | 1 | |
| PCB-1248 | ND | mg/kg | 1.7 | 0.43 | EPA-8082A | ND | A01 | 1 | |
| PCB-1254 | 5.3 | mg/kg | 1.7 | 0.53 | EPA-8082A | ND | A01 | 1 | |
| PCB-1260 | ND | mg/kg | 1.7 | 0.27 | EPA-8082A | ND | A01 | 1 | |
| Total PCB's (Summation) | 5.3 | mg/kg | 1.7 | 0.83 | EPA-8082A | ND | A01 | 1 | |
| Decachlorobiphenyl (Surrogate) | 100 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | A01 | 1 | |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 10:55 | VH1 | GC-15 | 166.67 | BXF1322 |

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Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

| BCL Sample ID: | 1413266-10 | Client Sample Name: | 8490-004-SA ART, 5/10/2014 11:30:00AM | | | | | | |
|--------------------------------|------------|---------------------|---------------------------------------|-------------|------------------|-----------|------------|----------|--|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # | |
| PCB-1016 | ND | mg/kg | 1.6 | 0.43 | EPA-8082A | ND | A01 | 1 | |
| PCB-1221 | ND | mg/kg | 1.6 | 0.60 | EPA-8082A | ND | A01 | 1 | |
| PCB-1232 | ND | mg/kg | 1.6 | 0.38 | EPA-8082A | ND | A01 | 1 | |
| PCB-1242 | ND | mg/kg | 1.6 | 0.63 | EPA-8082A | ND | A01 | 1 | |
| PCB-1248 | ND | mg/kg | 1.6 | 0.41 | EPA-8082A | ND | A01 | 1 | |
| PCB-1254 | 4.3 | mg/kg | 1.6 | 0.51 | EPA-8082A | ND | A01 | 1 | |
| PCB-1260 | ND | mg/kg | 1.6 | 0.25 | EPA-8082A | ND | A01 | 1 | |
| Total PCB's (Summation) | 4.3 | mg/kg | 1.6 | 0.79 | EPA-8082A | ND | A01 | 1 | |
| Decachlorobiphenyl (Surrogate) | 100 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | A01 | 1 | |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 11:06 | VH1 | GC-15 | 157.89 | BXF1322 |

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Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

| BCL Sample ID: 1413266-11 | | Client Sample Name: 8490-006-SA WW2, 5/10/2014 11:45:00AM | | | | | | |
|--------------------------------|---------------|---|----------------------|--------------|------------------|-----------|------------|----------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| PCB-1016 | ND | mg/kg | 27000 | 7400 | EPA-8082A | ND | A01 | 1 |
| PCB-1221 | ND | mg/kg | 27000 | 10000 | EPA-8082A | ND | A01 | 1 |
| PCB-1232 | ND | mg/kg | 27000 | 6500 | EPA-8082A | ND | A01 | 1 |
| PCB-1242 | ND | mg/kg | 27000 | 11000 | EPA-8082A | ND | A01 | 1 |
| PCB-1248 | ND | mg/kg | 27000 | 7100 | EPA-8082A | ND | A01 | 1 |
| PCB-1254 | 370000 | mg/kg | 27000 | 8700 | EPA-8082A | ND | A01 | 1 |
| PCB-1260 | ND | mg/kg | 27000 | 4400 | EPA-8082A | ND | A01 | 1 |
| Total PCB's (Summation) | 370000 | mg/kg | 27000 | 14000 | EPA-8082A | ND | A01 | 1 |
| Decachlorobiphenyl (Surrogate) | 0 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | A01,A17 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 13:50 | VH1 | GC-15 | 2727300 | BXF1322 |

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Reported: 06/19/2014 16:13
Project: 8081
Project Number:
Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1413266-12 | Client Sample Name: 8490-009-SA AJ1, 5/12/2014 7:45:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|--------------------------------|--------|-------|----------------------|---------|-----------|---------|-----------|-------|
| Aldrin | ND | mg/kg | 0.0029 | 0.00015 | EPA-8081B | ND | A11,A26 | 1 |
| alpha-BHC | ND | mg/kg | 0.0029 | 0.00082 | EPA-8081B | ND | A11,A26 | 1 |
| beta-BHC | ND | mg/kg | 0.0029 | 0.0022 | EPA-8081B | ND | A11,A26 | 1 |
| delta-BHC | ND | mg/kg | 0.0029 | 0.00045 | EPA-8081B | ND | A11,A26 | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.0029 | 0.0015 | EPA-8081B | ND | A11,A26 | 1 |
| alpha-Chlordane | ND | mg/kg | 0.0029 | 0.00051 | EPA-8081B | ND | A11,A26 | 1 |
| gamma-Chlordane | ND | mg/kg | 0.0029 | 0.00037 | EPA-8081B | ND | A11,A26 | 1 |
| Chlordane (Technical) | ND | mg/kg | 0.29 | 0.088 | EPA-8081B | ND | A11,A26 | 1 |
| 4,4'-DDD | ND | mg/kg | 0.0029 | 0.00037 | EPA-8081B | ND | A11,A26 | 1 |
| 4,4'-DDE | ND | mg/kg | 0.0029 | 0.00026 | EPA-8081B | ND | A11,A26 | 1 |
| 4,4'-DDT | ND | mg/kg | 0.0029 | 0.00018 | EPA-8081B | ND | A11,A26 | 1 |
| Dieldrin | ND | mg/kg | 0.0029 | 0.00019 | EPA-8081B | ND | A11,A26 | 1 |
| Endosulfan I | ND | mg/kg | 0.0029 | 0.00051 | EPA-8081B | ND | A11,A26 | 1 |
| Endosulfan II | ND | mg/kg | 0.0029 | 0.00039 | EPA-8081B | ND | A11,A26 | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.0029 | 0.00076 | EPA-8081B | ND | A11,A26 | 1 |
| Endrin | ND | mg/kg | 0.0029 | 0.00021 | EPA-8081B | ND | A11,A26 | 1 |
| Endrin aldehyde | ND | mg/kg | 0.0029 | 0.00036 | EPA-8081B | ND | A11,A26 | 1 |
| Heptachlor | ND | mg/kg | 0.0029 | 0.0015 | EPA-8081B | ND | A11,A26 | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.0029 | 0.00088 | EPA-8081B | ND | A11,A26 | 1 |
| Methoxychlor | ND | mg/kg | 0.0029 | 0.00076 | EPA-8081B | ND | A11,A26 | 1 |
| Toxaphene | ND | mg/kg | 0.29 | 0.044 | EPA-8081B | ND | A11,A26 | 1 |
| TCMX (Surrogate) | 84.7 | % | 20 - 140 (LCL - UCL) | | EPA-8081B | | A11,A26 | 1 |
| Decachlorobiphenyl (Surrogate) | 84.0 | % | 20 - 140 (LCL - UCL) | | EPA-8081B | | A11,A26 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8081B | 06/13/14 | 06/16/14 14:37 | VH1 | GC-14 | 5.882 | BXF1329 |

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|---|---|

PCB Analysis (EPA Method 8082A)

| BCL Sample ID: 1413266-12 | Client Sample Name: 8490-009-SA AJ1, 5/12/2014 7:45:00AM | | | | | | | |
|--------------------------------|--|--------------|----------------------|-------------|------------------|-----------|------------|----------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| PCB-1016 | ND | mg/kg | 0.53 | 0.14 | EPA-8082A | ND | A01 | 1 |
| PCB-1221 | ND | mg/kg | 0.53 | 0.20 | EPA-8082A | ND | A01 | 1 |
| PCB-1232 | ND | mg/kg | 0.53 | 0.13 | EPA-8082A | ND | A01 | 1 |
| PCB-1242 | ND | mg/kg | 0.53 | 0.21 | EPA-8082A | ND | A01 | 1 |
| PCB-1248 | ND | mg/kg | 0.53 | 0.14 | EPA-8082A | ND | A01 | 1 |
| PCB-1254 | 1.6 | mg/kg | 0.53 | 0.17 | EPA-8082A | ND | A01 | 1 |
| PCB-1260 | ND | mg/kg | 0.53 | 0.084 | EPA-8082A | ND | A01 | 1 |
| Total PCB's (Summation) | 1.6 | mg/kg | 0.53 | 0.26 | EPA-8082A | ND | A01 | 1 |
| Decachlorobiphenyl (Surrogate) | 100 | % | 50 - 140 (LCL - UCL) | | EPA-8082A | | A01 | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8082A | 06/13/14 | 06/19/14 12:55 | VH1 | GC-15 | 52.632 | BXF1322 |

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|--|---|

Organochlorine Pesticides (EPA Method 8081B)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|--------------------------------|--------------|-----------|-------|----------------------|----------|-----------|
| QC Batch ID: BXF1329 | | | | | | |
| Aldrin | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000026 | |
| alpha-BHC | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.00014 | |
| beta-BHC | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.00038 | |
| delta-BHC | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000076 | |
| gamma-BHC (Lindane) | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.00025 | |
| alpha-Chlordane | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000086 | |
| gamma-Chlordane | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000063 | |
| Chlordane (Technical) | BXF1329-BLK1 | ND | mg/kg | 0.050 | 0.015 | |
| 4,4'-DDD | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000063 | |
| 4,4'-DDE | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000045 | |
| 4,4'-DDT | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000031 | |
| Dieldrin | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000032 | |
| Endosulfan I | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000086 | |
| Endosulfan II | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000066 | |
| Endosulfan sulfate | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.00013 | |
| Endrin | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000035 | |
| Endrin aldehyde | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.000061 | |
| Heptachlor | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.00026 | |
| Heptachlor epoxide | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.00015 | |
| Methoxychlor | BXF1329-BLK1 | ND | mg/kg | 0.00050 | 0.00013 | |
| Toxaphene | BXF1329-BLK1 | ND | mg/kg | 0.050 | 0.0074 | |
| TCMX (Surrogate) | BXF1329-BLK1 | 86.3 | % | 20 - 140 (LCL - UCL) | | |
| Decachlorobiphenyl (Surrogate) | BXF1329-BLK1 | 90.4 | % | 20 - 140 (LCL - UCL) | | |

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El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: XXXXXXXXXX
Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|--------------------------------|--------------|------|-----------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BXF1329 | | | | | | | | | | |
| Aldrin | BXF1329-BS1 | LCS | 0.0041677 | 0.0050000 | mg/kg | 83.4 | | 70 - 130 | | |
| gamma-BHC (Lindane) | BXF1329-BS1 | LCS | 0.0046233 | 0.0050000 | mg/kg | 92.5 | | 60 - 140 | | |
| 4,4'-DDT | BXF1329-BS1 | LCS | 0.0045333 | 0.0050000 | mg/kg | 90.7 | | 60 - 140 | | |
| Dieldrin | BXF1329-BS1 | LCS | 0.0041303 | 0.0050000 | mg/kg | 82.6 | | 70 - 130 | | |
| Endrin | BXF1329-BS1 | LCS | 0.0042733 | 0.0050000 | mg/kg | 85.5 | | 60 - 140 | | |
| Heptachlor | BXF1329-BS1 | LCS | 0.0043107 | 0.0050000 | mg/kg | 86.2 | | 40 - 140 | | |
| TCMX (Surrogate) | BXF1329-BS1 | LCS | 0.0085373 | 0.0100000 | mg/kg | 85.4 | | 20 - 140 | | |
| Decachlorobiphenyl (Surrogate) | BXF1329-BS1 | LCS | 0.021506 | 0.0250000 | mg/kg | 86.0 | | 20 - 140 | | |

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El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: XXXXXXXXXX
Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | |
|--------------------------------|------|-----------------------|---------------|-----------|-------------|-------|------|------------------|-----|------------------|
| | | | | | | | | Percent Recovery | RPD | Percent Recovery |
| QC Batch ID: BXF1329 | | Used client sample: N | | | | | | | | |
| Aldrin | MS | 1408395-27 | ND | 0.0037121 | 0.0050505 | mg/kg | | 73.5 | | 30 - 140 |
| | MSD | 1408395-27 | ND | 0.0043990 | 0.0049180 | mg/kg | 16.9 | 89.4 | 30 | 30 - 140 |
| gamma-BHC (Lindane) | MS | 1408395-27 | ND | 0.0037667 | 0.0050505 | mg/kg | | 74.6 | | 30 - 140 |
| | MSD | 1408395-27 | ND | 0.0050570 | 0.0049180 | mg/kg | 29.2 | 103 | 30 | 30 - 140 |
| 4,4'-DDT | MS | 1408395-27 | ND | 0.0039700 | 0.0050505 | mg/kg | | 78.6 | | 30 - 140 |
| | MSD | 1408395-27 | ND | 0.0050184 | 0.0049180 | mg/kg | 23.3 | 102 | 30 | 30 - 140 |
| Dieldrin | MS | 1408395-27 | ND | 0.0036808 | 0.0050505 | mg/kg | | 72.9 | | 40 - 140 |
| | MSD | 1408395-27 | ND | 0.0044134 | 0.0049180 | mg/kg | 18.1 | 89.7 | 30 | 40 - 140 |
| Endrin | MS | 1408395-27 | ND | 0.0038158 | 0.0050505 | mg/kg | | 75.6 | | 30 - 150 |
| | MSD | 1408395-27 | ND | 0.0046551 | 0.0049180 | mg/kg | 19.8 | 94.7 | 30 | 30 - 150 |
| Heptachlor | MS | 1408395-27 | ND | 0.0037764 | 0.0050505 | mg/kg | | 74.8 | | 70 - 130 |
| | MSD | 1408395-27 | ND | 0.0045708 | 0.0049180 | mg/kg | 19.0 | 92.9 | 30 | 70 - 130 |
| TCMX (Surrogate) | MS | 1408395-27 | ND | 0.0074226 | 0.010101 | mg/kg | | 73.5 | | 20 - 140 |
| | MSD | 1408395-27 | ND | 0.0096656 | 0.0098361 | mg/kg | 26.3 | 98.3 | | 20 - 140 |
| Decachlorobiphenyl (Surrogate) | MS | 1408395-27 | ND | 0.019358 | 0.025253 | mg/kg | | 76.7 | | 20 - 140 |
| | MSD | 1408395-27 | ND | 0.023297 | 0.024590 | mg/kg | 18.5 | 94.7 | | 20 - 140 |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: XXXXXXXXXX
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|--------------------------------|--------------|-----------|-------|----------------------|--------|-----------|
| QC Batch ID: BXF1322 | | | | | | |
| PCB-1016 | BXF1322-BLK1 | ND | mg/kg | 0.010 | 0.0027 | |
| PCB-1221 | BXF1322-BLK1 | ND | mg/kg | 0.010 | 0.0038 | |
| PCB-1232 | BXF1322-BLK1 | ND | mg/kg | 0.010 | 0.0024 | |
| PCB-1242 | BXF1322-BLK1 | ND | mg/kg | 0.010 | 0.0040 | |
| PCB-1248 | BXF1322-BLK1 | ND | mg/kg | 0.010 | 0.0026 | |
| PCB-1254 | BXF1322-BLK1 | ND | mg/kg | 0.010 | 0.0032 | |
| PCB-1260 | BXF1322-BLK1 | ND | mg/kg | 0.010 | 0.0016 | |
| Total PCB's (Summation) | BXF1322-BLK1 | ND | mg/kg | 0.010 | 0.0050 | |
| Decachlorobiphenyl (Surrogate) | BXF1322-BLK1 | 110 | % | 50 - 140 (LCL - UCL) | | |

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Frontier Analytical Laboratory
5172 Hillside Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | |
|--------------------------------|--------------|------|-----------|-------------|-------|------------------|-----|------------------|-----|-----------|
| | | | | | | | | Percent Recovery | RPD | Lab Quals |
| QC Batch ID: BXF1322 | | | | | | | | | | |
| PCB-1016 | BXF1322-BS1 | LCS | 0.076174 | 0.083893 | mg/kg | 90.8 | | 60 - 130 | | |
| PCB-1260 | BXF1322-BS1 | LCS | 0.070805 | 0.083893 | mg/kg | 84.4 | | 70 - 130 | | |
| Decachlorobiphenyl (Surrogate) | BXF1322-BS1 | LCS | 0.0067114 | 0.0067114 | mg/kg | 100 | | 50 - 140 | | |

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| | |
|--|---|
| Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762 | Reported: 06/19/2014 16:13 Project: 8081 Project Number: [REDACTED] Project Manager: Brad Silverbush |
|--|---|

PCB Analysis (EPA Method 8082A)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits | | Lab |
|--------------------------------|------|-----------------------|---------------|-----------|-------------|-------|-----|------------------|----------------|------------------|----------|
| | | | | | | | | | RPD | Percent Recovery | |
| QC Batch ID: BXF1322 | | Used client sample: N | | | | | | | | | |
| PCB-1016 | MS | 1404104-92 | ND | 0.084106 | 0.082781 | mg/kg | | 102 | | | 40 - 130 |
| | MSD | 1404104-92 | ND | 0.079868 | 0.082508 | mg/kg | 5.2 | 96.8 | 30 | | 40 - 130 |
| PCB-1260 | MS | 1404104-92 | ND | 0.082781 | 0.082781 | mg/kg | | 100 | | | 40 - 130 |
| | MSD | 1404104-92 | ND | 0.090759 | 0.082508 | mg/kg | 9.2 | 110 | 30 | | 40 - 130 |
| Decachlorobiphenyl (Surrogate) | MS | 1404104-92 | ND | 0.0076159 | 0.0066225 | mg/kg | | 115 | | | 50 - 140 |
| | MSD | 1404104-92 | ND | 0.0072607 | 0.0066007 | mg/kg | 4.8 | 110 | | | 50 - 140 |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Frontier Analytical Laboratory
5172 Hillside Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [REDACTED]
Project Manager: Brad Silverbush

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A11 PQL's and/or MDL's were raised due to inadequate sample size received.
- A17 Surrogate not reportable due to sample dilution.
- A26 Sample received past holding time.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Appendix A.2

**Third Party Reported Results
Key to BC Laboratories Report
June 19, 2014**

Key to BC Laboratories, Inc Report

8489-001-SA LL1 (inside PE office exterior window, clear caulk)

8489-002-SA LL2 (inside PE office exterior window)

8489-005-SA LL5 (PE office inside window)

8489-006-SA JJ1 (room 3, interior window)

8489-011-SA BB5 (dirt room 1)

8489-012-SA KK1 (dirt room 5)

8489-013-SA JJC1 (Juan Cabrillo room 19)

8489-015-SA JJC3 (Juan Cabrillo outside bathroom window grout)

8490-003-SA SS1 (grout outside student store)

8490-004-SA ART (exterior window)

8490-006-SA WW2 (interior door frame caulk)

8490-009-SA AJ1 (room 2 dirt)

Appendix A.3

**Third Party Reported Results
Validation Report for BC Laboratories Report
July 3, 2014**

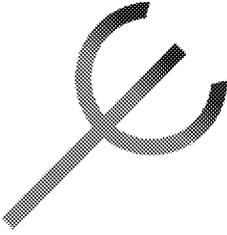
Summary of Deficiencies Found in the Data Review:

1. For PCBs:

- Chain-of-Custody (COC) documentation is missing from 5/10/14 to 6/12/14.
- Coolers for sample storage were above 6°C at 7.4 and 7.5°C
- The lab report does not provide any information (e.g., method followed, prep bench sheet) about sample preparation, other than the date.
- Dilution factors are not listed on the lab report; however, the lab does use a code to indicate the sample was diluted.
- Calibration information (e.g., calibration curve, initial and continuing calibration checks) was not included with the lab report. Additionally, a run log was not included.
- The samples that had high detects for PCBs (samples 8489-002-SA LL2, 8489-013-SA, and 8490-006-SA WW2) had 0% surrogate recovery. The lab noted this was due to dilution of the samples, which diluted out the surrogate.
- The lab indicates that sample “N” was used as the source for the matrix spike, but it is not clear what sample this is. The sample name does not relate to any of the client IDs used.
- Internal standard information was not provided.
- Raw data was not provided with the lab report.

2. For Organochlorine Pesticides:

- COC documentation is missing from 5/10/14 to 6/12/14.
- Coolers for sample storage were above 6°C at 7.4 and 7.5°C
- The lab report does not provide any information (e.g., method followed, prep bench sheet) about sample preparation, other than the date.
- Dilution factors are not listed on the lab report; however, the lab does use a code to indicate the sample was diluted.
- Holding times were not met for any of the samples; the lab properly qualified these samples indicating the holding time was missed.
- Calibration information (e.g., calibration curve, initial and continuing calibration checks) was not included with the lab report. Additionally, a run log was not included.
- The lab indicates that sample “N” was used as the source for the matrix spike, but it is not clear what sample this is. The sample name does not relate to any of the client IDs used.
- Raw data was not provided with the lab report.



NEPTUNE AND COMPANY, INC.
1435 Garrison St.
Suite 110
Lakewood, CO 80215
720-746-1803
www.neptuneandco.com

MEMORANDUM

To: Kurt Fehling

From: Rebecca Shircliff and Paul Black

Date: July 3, 2014

Subject: Review of laboratory data for PCB and organochlorine pesticide analysis.

A Stage 2B review was performed on PCB and organochlorine pesticide data from BC Laboratories. The deficiencies found for the data are summarized below. In general, these data appear to be usable and valid based on the QC provided; however, it is highly recommended that the laboratory provide the missing information identified below (e.g., calibration, calibration checks, run log, matrix spike source and internal standard information) for a complete evaluation of the quality of the data. In addition, some documentation is needed to explain the 1-month gap between data collection and relinquishment from the Frontier Analytical Laboratories.

Appendix A.4

**Third Party Reported Results
Eurofins Calscience Report
August 26, 2014**



Calscience



WORK ORDER NUMBER: 14-08-1493

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Malibu Unites

Client Project Name: MHS 2014-8

Attention:

22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Approved for release on 08/26/2014 by:
Don Burley
Project Manager

ResultLink

Email your PM



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: MHS 2014-8
Work Order Number: 14-08-1493

| | | |
|---|---|----|
| 1 | Work Order Narrative. | 3 |
| 2 | Sample Summary. | 4 |
| 3 | Detections Summary. | 5 |
| 4 | Client Sample Data. | 6 |
| | 4.1 EPA 8082 PCB Aroclors (Solid). | 6 |
| 5 | Quality Control Sample Data. | 11 |
| | 5.1 MS/MSD. | 11 |
| | 5.2 LCS/LCSD. | 12 |
| 6 | Sample Analysis Summary. | 13 |
| 7 | Glossary of Terms and Qualifiers. | 14 |
| 8 | Chain-of-Custody/Sample Receipt Form. | 15 |

Work Order: 14-08-1493Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/20/14. They were assigned to Work Order 14-08-1493.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

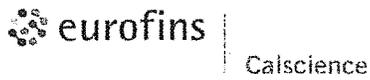
Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



Sample Summary

| | |
|------------------------------------|------------------------------------|
| Client: Malibu Unites | Work Order: 14-08-1493 |
| 22741 Pacific Coast Hwy, Suite 401 | Project Name: MHS 2014-8 |
| Malibu, CA 90265-5876 | PO Number: |
| | Date/Time Received: 08/20/14 13:54 |
| | Number of Containers: 6 |

Attn:

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|--------------|--------------------------|----------------------|--------|
| AIR DUCT GUY | 14-08-1493-1 | 08/15/14 17:15 | 1 | Solid |
| French-MHS | 14-08-1493-2 | 08/15/14 15:35 | 1 | Solid |
| 401-MHS | 14-08-1493-3 | 08/15/14 15:30 | 1 | Solid |
| 505-MHS | 14-08-1493-4 | 08/15/14 15:30 | 1 | Solid |
| 7-MHS | 14-08-1493-5 | 08/15/14 15:35 | 1 | Solid |
| 10-MHS | 14-08-1493-6 | 08/15/14 15:15 | 1 | Solid |

Return to Customers

Detections Summary

Client: Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Work Order: 14-08-1493
 Project Name: MHS 2014-8
 Received: 08/20/14

Attn:

Page 1 of 1

Client SampleID

| <u>Analyte</u> | <u>Result</u> | <u>Qualifiers</u> | <u>RL</u> | <u>Units</u> | <u>Method</u> | <u>Extraction</u> |
|-----------------------------|---------------|-------------------|-----------|--------------|---------------|-------------------|
| AIR DUCT GUY (14-08-1493-1) | | | | | | |
| Aroclor-1254 | 27 | | 15 | mg/kg | EPA 8082 | EPA 3540C |
| Aroclor-1260 | 31 | | 15 | mg/kg | EPA 8082 | EPA 3540C |
| Total Aroclors | 58 | | | mg/kg | | |
| French-MHS (14-08-1493-2) | | | | | | |
| Aroclor-1254 | 200 | | 22 | mg/kg | EPA 8082 | EPA 3540C |
| 401-MHS (14-08-1493-3) | | | | | | |
| Aroclor-1254 | 120000 | | 30000 | mg/kg | EPA 8082 | EPA 3540C |
| Aroclor-1260 | 26000 | | 3000 | mg/kg | EPA 8082 | EPA 3540C |
| Total Aroclors | 146000 | | | mg/kg | | |
| 505-MHS (14-08-1493-4) | | | | | | |
| Aroclor-1254 | 180000 | | 18000 | mg/kg | EPA 8082 | EPA 3540C |
| Aroclor-1260 | 51000 | | 18000 | mg/kg | EPA 8082 | EPA 3540C |
| Total Aroclors | 231000 | | | mg/kg | | |
| 7-MHS (14-08-1493-5) | | | | | | |
| Aroclor-1254 | 190 | | 64 | mg/kg | EPA 8082 | EPA 3540C |
| 10-MHS (14-08-1493-6) | | | | | | |
| Aroclor-1254 | 32 | | 4.2 | mg/kg | EPA 8082 | EPA 3540C |

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 08/20/14
 Work Order: 14-08-1493
 Preparation: EPA 3540C
 Method: EPA 8082
 Units: mg/kg

Project: MHS 2014-8

Page 1 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| AIR-DUCT GUY | 14-08-1493-1-A | 08/15/14 17:15 | Solid | GC 31 | 08/21/14 | 08/24/14 01:54 | 140821L12A |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|----|------|------------|
| Aroclor-1016 | ND | 15 | 10.0 | |
| Aroclor-1221 | ND | 15 | 10.0 | |
| Aroclor-1232 | ND | 15 | 10.0 | |
| Aroclor-1242 | ND | 15 | 10.0 | |
| Aroclor-1248 | ND | 15 | 10.0 | |
| Aroclor-1254 | 27 | 15 | 10.0 | |
| Aroclor-1260 | 31 | 15 | 10.0 | |
| Aroclor-1262 | ND | 15 | 10.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 97 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 100 | 25-145 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| French-MHS | 14-08-1493-2-A | 08/15/14 15:35 | Solid | GC 31 | 08/21/14 | 08/24/14 02:13 | 140821L12A |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|----|------|------------|
| Aroclor-1016 | ND | 22 | 10.0 | |
| Aroclor-1221 | ND | 22 | 10.0 | |
| Aroclor-1232 | ND | 22 | 10.0 | |
| Aroclor-1242 | ND | 22 | 10.0 | |
| Aroclor-1248 | ND | 22 | 10.0 | |
| Aroclor-1254 | 200 | 22 | 10.0 | |
| Aroclor-1260 | ND | 22 | 10.0 | |
| Aroclor-1262 | ND | 22 | 10.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 105 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 111 | 25-145 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 08/20/14
 Work Order: 14-08-1493
 Preparation: EPA 3540C
 Method: EPA 8082
 Units: mg/kg

Project: MHS 2014-8

Page 2 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 401-MHS | 14-08-1493-3-A | 08/15/14 15:30 | Solid | GC 31 | 08/21/14 | 08/25/14 15:16 | 140821L12A |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|----|------|------------|
| Aroclor-1016 | ND | 30 | 50.0 | |
| Aroclor-1221 | ND | 30 | 50.0 | |
| Aroclor-1232 | ND | 30 | 50.0 | |
| Aroclor-1242 | ND | 30 | 50.0 | |
| Aroclor-1248 | ND | 30 | 50.0 | |
| Aroclor-1262 | ND | 30 | 50.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 252 | 24-168 | 1,2,7 |
| 2,4,5,6-Tetrachloro-m-Xylene | 107 | 25-145 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 401-MHS | 14-08-1493-3-A | 08/15/14 15:30 | Solid | GC 31 | 08/21/14 | 08/25/14 16:26 | 140821L12A |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|------|------|------------|
| Aroclor-1260 | 26000 | 3000 | 5000 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 0 | 24-168 | 1,2,6 |
| 2,4,5,6-Tetrachloro-m-Xylene | 0 | 25-145 | 1,2,6 |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 401-MHS | 14-08-1493-3-A | 08/15/14 15:30 | Solid | GC 31 | 08/21/14 | 08/25/14 17:04 | 140821L12A |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|-------|------------|
| Aroclor-1254 | 120000 | 30000 | 50000 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 0 | 24-168 | 1,2,6 |
| 2,4,5,6-Tetrachloro-m-Xylene | 0 | 25-145 | 1,2,6 |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 08/20/14
 Work Order: 14-08-1493
 Preparation: EPA 3540C
 Method: EPA 8082
 Units: mg/kg

Project: MHS 2014-8

Page 3 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 505-MHS | 14-08-1493-4-A | 08/15/14 15:30 | Solid | GC 31 | 08/21/14 | 08/25/14 15:35 | 140821L12A |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|----|------|------------|
| Aroclor-1016 | ND | 18 | 50.0 | |
| Aroclor-1221 | ND | 18 | 50.0 | |
| Aroclor-1232 | ND | 18 | 50.0 | |
| Aroclor-1242 | ND | 18 | 50.0 | |
| Aroclor-1248 | ND | 18 | 50.0 | |
| Aroclor-1262 | ND | 18 | 50.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 798 | 24-168 | 1,2,7 |
| 2,4,5,6-Tetrachloro-m-Xylene | 130 | 25-145 | |

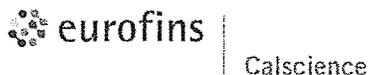
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 505-MHS | 14-08-1493-4-A | 08/15/14 15:30 | Solid | GC 31 | 08/21/14 | 08/25/14 17:23 | 140821L12A |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|-------|------------|
| Aroclor-1254 | 180000 | 18000 | 50000 | |
| Aroclor-1260 | 51000 | 18000 | 50000 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 0 | 24-168 | 1,2,6 |
| 2,4,5,6-Tetrachloro-m-Xylene | 0 | 25-145 | 1,2,6 |

Reference Compound

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 08/20/14
 Work Order: 14-08-1493
 Preparation: EPA 3540C
 Method: EPA 8082
 Units: mg/kg

Project: MHS 2014-8

Page 4 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 7-MHS | 14-08-1493-5-A | 08/15/14 15:35 | Solid | GC 31 | 08/21/14 | 08/24/14 03:10 | 140821L12A |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|----|-----|------------|
| Aroclor-1016 | ND | 64 | 100 | |
| Aroclor-1221 | ND | 64 | 100 | |
| Aroclor-1232 | ND | 64 | 100 | |
| Aroclor-1242 | ND | 64 | 100 | |
| Aroclor-1248 | ND | 64 | 100 | |
| Aroclor-1254 | 190 | 64 | 100 | |
| Aroclor-1260 | ND | 64 | 100 | |
| Aroclor-1262 | ND | 64 | 100 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 146 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 131 | 25-145 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| 10-MHS | 14-08-1493-6-A | 08/15/14 15:15 | Solid | GC 31 | 08/21/14 | 08/24/14 03:29 | 140821L12A |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-----|------|------------|
| Aroclor-1016 | ND | 4.2 | 10.0 | |
| Aroclor-1221 | ND | 4.2 | 10.0 | |
| Aroclor-1232 | ND | 4.2 | 10.0 | |
| Aroclor-1242 | ND | 4.2 | 10.0 | |
| Aroclor-1248 | ND | 4.2 | 10.0 | |
| Aroclor-1254 | 32 | 4.2 | 10.0 | |
| Aroclor-1260 | ND | 4.2 | 10.0 | |
| Aroclor-1262 | ND | 4.2 | 10.0 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 112 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 108 | 25-145 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 08/20/14
 Work Order: 14-08-1493
 Preparation: EPA 3540C
 Method: EPA 8082
 Units: mg/kg

Project: MHS 2014-8

Page 5 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank | 099-12-535-2819 | N/A | Solid | GC 31 | 08/21/14 | 08/23/14 11:46 | 140821L12A |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|------|------------|
| Aroclor-1016 | ND | 0.050 | 1.00 | |
| Aroclor-1221 | ND | 0.050 | 1.00 | |
| Aroclor-1232 | ND | 0.050 | 1.00 | |
| Aroclor-1242 | ND | 0.050 | 1.00 | |
| Aroclor-1248 | ND | 0.050 | 1.00 | |
| Aroclor-1254 | ND | 0.050 | 1.00 | |
| Aroclor-1260 | ND | 0.050 | 1.00 | |
| Aroclor-1262 | ND | 0.050 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 109 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 112 | 25-145 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

Malibu Unites
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Date Received: 08/20/14
Work Order: 14-08-1493
Preparation: EPA 3540C
Method: EPA 8082

Project: MHS 2014-8

Page 1 of 1

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|------------------------|--------|------------|---------------|----------------|---------------------|
| 14-08-1637-3 | Sample | Solid | GC 31 | 08/21/14 | 08/23/14 19:14 | 140821S12 |
| 14-08-1637-3 | Matrix Spike | Solid | GC 31 | 08/21/14 | 08/24/14 05:23 | 140821S12 |
| 14-08-1637-3 | Matrix Spike Duplicate | Solid | GC 31 | 08/21/14 | 08/24/14 05:42 | 140821S12 |

| Parameter | Sample Conc. | Spike Added | MS Conc. | MS %Rec. | MSD Conc. | MSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|--------------|--------------|-------------|----------|----------|-----------|-----------|----------|-----|--------|------------|
| Aroclor-1016 | ND | 0.1000 | 0.2558 | 256 | 0.2724 | 272 | 50-135 | 6 | 0-25 | 3 |
| Aroclor-1260 | 0.1280 | 0.1000 | 0.1530 | 25 | 0.1727 | 45 | 50-135 | 12 | 0-25 | 3 |

RPD: Relative Percent Difference. CL: Control Limits

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

ED_002022B_00026808-00073



Quality Control - LCS

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 08/20/14
 Work Order: 14-08-1493
 Preparation: EPA 3540C
 Method: EPA 8082

Project: MHS 2014-8

Page 1 of 1

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS Batch Number |
|---------------------------|------|--------|------------|---------------|----------------|------------------|
| 099-12-535-2819 | LCS | Solid | GC-31 | 08/21/14 | 08/23/14 11:27 | 140821L12A |

| Parameter | Spike Added | Conc. Recovered | LCS %Rec. | %Rec. CL | Qualifiers |
|--------------|-------------|-----------------|-----------|----------|------------|
| Aroclor-1016 | 0.1000 | 0.1010 | 101 | 50-135 | |
| Aroclor-1260 | 0.1000 | 0.1052 | 105 | 50-135 | |

Reference Compound

RPD: Relative Percent Difference. CL: Control Limits

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Sample Analysis Summary Report

Work Order: 14-08-1493

Page 1 of 1

| <u>Method</u> | <u>Extraction</u> | <u>Chemist ID</u> | <u>Instrument</u> | <u>Analytical Location</u> |
|---------------|-------------------|-------------------|-------------------|----------------------------|
| EPA 8082 | EPA 3540C | 669 | GC 31 | 1 |

Return to Calscience

Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Glossary of Terms and Qualifiers

Work Order: 14-08-1493

Page 1 of 1

| Qualifiers | Definition |
|------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of \leq 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Carofins

Calscience

7400 Lincoln Way, Garden Grove, CA 92641-1427 • (714) 895-5494
 For courier service (sample drop off information, contact us26_sales@carofins.com or call us
 LABORATORY CLIENT:

CHAIN OF CUSTODY RECORD

DATE: Aug 20, 2014

PAGE: 1 OF 1

14-08-1493

CLIENT PROJECT NAME / NUMBER: MHS 2014 - B

PROJECT NUMBER: _____

ADDRESS: Malibu Unites

CITY: 22741 PCH Suite 401 STATE: CA ZIP: 90265

TEL: 310 EMAIL: _____

TURNDOWN TIME (rush surcharges may apply for any turn down)

SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELTEDF GLOBAL ID: _____

SPECIAL INSTRUCTIONS: _____

| LAB RISK INDEX | SAMPLE ID | SAMPLING | | MATRIX | NO. OF CONT. | LOG CODE | | |
|----------------|--------------|----------|---------|--------|--------------|-------------|-----------|----------------|
| | | DATE | TIME | | | Unpreserved | Preserved | Field Filtered |
| 1 | Air Duct Gwy | 8-15-14 | 5:15 PM | Canuck | 1 | | | |
| 2 | French-MATS | 8-15-14 | 3:30 P | " | 1 | | | |
| 3 | 401 - MATS | 8-15-14 | 3:30 P | | 1 | | | |
| 4 | SOS - MATS | 8-15-14 | 3:30 P | | 1 | | | |
| 5 | 7 - MATS | 8-15-14 | 3:30 P | | 1 | | | |
| 6 | 10 - MATS | 8-15-14 | 3:15 P | | 1 | | | |

REQUESTED ANALYSES

Please check box or fill in blank as needed

| | | | | | | | | | | | | | |
|---|---|---|-----------|--|-------------|-------------------|--|--------------|-------------------|-------------|--|--|---|
| <input type="checkbox"/> TP(H) <input type="checkbox"/> GRO | <input type="checkbox"/> TP(H) <input type="checkbox"/> DR0 | <input type="checkbox"/> TP(H) <input type="checkbox"/> C6-C35 <input type="checkbox"/> C6-C4 | TPH _____ | BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/> | VOCs (8260) | Oxygenates (8260) | Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core | SVOCs (8270) | Pesticides (8081) | PCBs (8082) | PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM | T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X | Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6 |
| | | | | | | | | | | X | X | | |

Requested by (Signature): _____ Date: 8/20/14 Time: 13:54
 Received by (Signature/Affiliation): [Signature] ECI
 Received by (Signature/Affiliation): _____ Date: _____ Time: _____
 Received by (Signature/Affiliation): _____ Date: _____ Time: _____

1493



CENTURY CITY (310) 553-6100
 HOLLYWOOD (323) 879-3000
 SHERMAN OAKS (818) 786-4444
 DOWNTOWN L.A. (213) 486-5000
 24 HOURS - 7 DAYS A WEEK

DATE 8/20/14
 YOUR FILE OR REF. NO.
 SERVICE ORDER NO. 4665

SERVING ALL OF CALIFORNIA

| | | | | | |
|---|---|---|---|----------------------------------|--|
| CHARGE TO: <u>DUPLICATE</u> | | ADDRESS: <u>Malibu High School (MHS)</u> | | ACCOUNT NO. <u>3019</u> | |
| PICKUP FROM: | | DELIVER TO: <u>Eurofins Calscience</u> | | | |
| ADDRESS | | ADDRESS <u>7440 Lincoln Way</u> | | | |
| CITY ZIP | | CITY <u>Garden Grove</u> | | ZIP <u>92841</u> | |
| SENDER'S NAME | | EXT. NO. DEPT. | | RECEIVER'S NAME TEL NO. DEPT. | |
| EXPRESS (IMMEDIATE) <input checked="" type="checkbox"/> | RUSH (2-3 HRS.) <input type="checkbox"/> | RETURN <input type="checkbox"/> | OTHER <input type="checkbox"/> | | OVERNIGHT BY 11 AM <input type="checkbox"/> BY 3 PM <input type="checkbox"/> |
| COURT FILING <input type="checkbox"/> | MAIN FILING WINDOW <input type="checkbox"/> | DEPT. NO. _____ | MAIL BACK CONFIRMED COPY <input type="checkbox"/> | SERVING <input type="checkbox"/> | RECORDING <input type="checkbox"/> BANK DEPOSIT <input type="checkbox"/> |
| NO. PKG. | DESCRIPTION AND SPECIAL INSTRUCTIONS <u>Malibu High School (MHS)</u> | | | | |
| SIGNATURE ON RETURN <input checked="" type="checkbox"/> | | DEL. TIME | MESSENGER # | | DELIVERY CHARGE |
| SIGNATURE ON DELIVERY <input checked="" type="checkbox"/> | | DEL. TIME | TOTAL | | |

Calscience

WORK ORDER #: 14-08-1493

SAMPLE RECEIPT FORM

Box 1 of 1

CLIENT: Malibu Unites

DATE: 08/20/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 24.8 °C - 0.3°C (CF) = 24.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 802

CUSTODY SEALS INTACT:

Box _____ No (Not Intact) Not Present N/A Checked by: 802

Sample _____ No (Not Intact) Not Present Checked by: 802

SAMPLE CONDITION:

| | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Collection date/time, ^(3 to 6) matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and <u>sufficient</u> volume for analyses requested..... | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® AlbaCGB ^(1x17)

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_zna 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: 802

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 778

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z: ZnAc₂+NaOH f: Filtered Scanned by: 776

Appendix A.5

**Third Party Reported Results
Key to Eurofins Calscience Report
September 2014**

Key to CalScience Results Sept 2014

Air Duct Guy: caulking that was found on cement walkway from a worker dragging his bag of garbage leaving a trail of trash on the walkway to his vehicle parked out front of the Malibu Middle and High School that said " Air Duct Cleaning"

French: MHS room 205: interior door frame

MHS room 401: interior office window frame

MHS room 505: interior door frame on north wall of room

MHS room 7: interior window frame

MHS room 10: interior window frame

Appendix A.6

**Third Party Reported Results
Frontier Analytical Laboratory Report Sample ID WW2
October 2, 2014**

October 2, 2014

Ms. Jennifer DeNicola
Malibu Unites
22741 Pacific Coast Highway, Suite 401
Malibu, CA 90265

Dear Ms. DeNicola,

The following results are for Frontier Analytical Laboratory project **8490**. This corresponds to your Malibu Unites project. Eleven of the twelve solid samples listed on the chain of custody were received on 5/13/2014. All eleven samples were placed on hold per your instructions. On 6/9/2014 you requested we sub-contract out several samples to be analyzed following EPA Method 8082. This was completed on 6/19/2014. Eventually you requested we analyze sample 8490-006-SA (Malibu Unites ID: WW2) for total PCB concentration using Modified EPA Method 1668C for all 209 PCB congeners. This was completed in August 2014 and concentrations were communicated to you. After numerous discussions you requested we go back and determine the concentration levels of PCB-126 in the sample.

Please note the following for your data sheets. The method blank and sample results are reported in ng/g (ppb). Our Modified EPA Method 1668C has a reporting limit (RL) of 25.0 ppb for each of the 209 PCB congeners. This reporting limit ensures that if all 209 PCB congeners are below the RL, cumulatively they are well below the action levels noted in the Toxic Substance Control Act (TSCA) of 50.0 ppm. Due to high levels of PCBs your sample had to be diluted and quantitated using an external standard. Therefore a true internal standard and cleanup surrogate recovery value is not available, hence the "X" and "*" qualifiers.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and sample photos. The attached results are specifically for the sample referenced in this report only. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested.

If you have any questions regarding project **8490**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

This report and all analytical work have been provided to you as a "gesture in kind" with no associated invoice or cost to you.

Sincerely,



Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **8490**

Received on: **05/13/2014**

Project Due: **06/05/2014**

Storage: **F2**

| FAL Sample ID | Dup | Client Project ID | Client Sample ID | Requested Method | Matrix | Sampling Date | Sampling Time | Hold Time Due Date |
|---------------|-----|-------------------|-------------------|------------------|--------|---------------|---------------|--------------------|
| 8490-001-SA | 0 | Malibu Unites | TT1 | EPA 1668 PCB | Solid | 05/10/2014 | 11:00 am | 05/10/2015 |
| 8490-002-SA | 0 | Malibu Unites | TT2 | EPA 1668 PCB | Solid | 05/10/2014 | 11:15 am | 05/10/2015 |
| 8490-003-SA | 0 | Malibu Unites | SS1 | EPA 1668 PCB | Solid | 05/10/2014 | 11:25 am | 05/10/2015 |
| 8490-004-SA | 0 | Malibu Unites | ART | EPA 1668 PCB | Solid | 05/10/2014 | 11:30 am | 05/10/2015 |
| 8490-005-SA | 0 | Malibu Unites | WW1 | EPA 1668 PCB | Solid | 05/10/2014 | 11:40 am | 05/10/2015 |
| 8490-006-SA | 0 | Malibu Unites | WW2 | EPA 1668 PCB | Solid | 05/10/2014 | 11:45 am | 05/10/2015 |
| 8490-007-SA | 0 | Malibu Unites | TT3 | EPA 1668 PCB | Solid | 05/10/2014 | 11:30 am | 05/10/2015 |
| 8490-008-SA | 0 | Malibu Unites | RMG | EPA 1668 PCB | Solid | 05/10/2014 | 12:00 pm | 05/10/2015 |
| 8490-009-SA | 0 | Malibu Unites | AJ1 | EPA 1668 PCB | Solid | 05/12/2014 | 07:45 am | 05/12/2015 |
| 8490-010-SA | 0 | Malibu Unites | AJ2 | EPA 1668 PCB | Solid | 05/12/2014 | 07:50 am | 05/12/2015 |
| 8490-011-SA | 0 | Malibu Unites | Ceiling Bulk - TT | EPA 1668 PCB | Solid | NP | NP | N/A |
| 8490-012-SA | 0 | Malibu Unites | Paint - TT | EPA 1668 PCB | Solid | NP | NP | N/A |

FAL Sample ID

Notes

8490-005-SA 'Sample not received.'
 8490-006-SA Using sample ID from COC for our tracking purposes.
 8490-009-SA 'Using hand written sampling date from jar label for our tracking purposes.'
 8490-010-SA 'Using hand written sampling date from jar label for our tracking purposes.'

Modified EPA Method 1668C
PCBs



FAL ID: 8490-001-MB
Client ID: Method Blank
Matrix: Solid
Batch No: X3149

Date Extracted: 08-05-2014
Date Received: NA
Amount: 2.00 g

ICal: LRPCBFAL4-7-10-14
GC Column: DB1
Units: ng/g

Acquired: 08-06-2014
WHO TEQ: NA
Basis: Dry Weight

| Compound | Conc | RL | Qual |
|----------|------|------|------|
| PCB-126 | ND | 25.0 | |

| Internal Standards | % Rec | QC Limits | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-126 | 80.9 | 15.0 - 145 | |

| Cleanup Surrogate | | | |
|-------------------|-----|------------|--|
| 13C-PCB-178 | 109 | 15.0 - 145 | |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 10/2/2014

Reviewed By: 
Date: 10/2/2014

Modified EPA Method 1668C
PCBs



FAL ID: 8490-001-OPR
Client ID: OPR
Matrix: Solid
Batch No: X3149

Date Extracted: 08-05-2014
Date Received: NA
Amount: 2.00 g

ICal: LRPCBFAL4-7-10-14
GC Column: DB1
Units: ng/ml

Acquired: 08-06-2014
WHO TEQ: NA

| Compound | Conc | QC Limits |
|--------------------|-----------|------------|
| PCB-126 | 434 | 200 - 600 |
| Internal Standards | | |
| % Rec | QC Limits | |
| 13C-PCB-126 | 82.7 | 15.0 - 145 |
| Cleanup Surrogate | | |
| 13C-PCB-178 | 99.0 | 15.0 - 145 |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 10/1/2014

Reviewed By: 
Date: 10/1/2014

Modified EPA Method 1668C
PCBs



FAL ID: 8490-006-SA
Client ID: WW2
Matrix: Solid
Batch No: X3149

Date Extracted: 08-05-2014
Date Received: 05-13-2014
Amount: 0.10 g

ICal: LRPCBFAL4-7-10-14
GC Column: DB1
Units: ng/g

Acquired: 08-07-2014
WHO TEQ: NA
Basis: Dry Weight

| Compound | Conc | RL | Qual |
|----------|--------|------|------|
| PCB-126 | 57,600 | 25.0 | |

| Internal Standards | % Rec | QC Limits | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-126 | NA | 15.0 - 145 | X,* |

| Cleanup Surrogate | | | |
|-------------------|----|------------|-----|
| 13C-PCB-178 | NA | 15.0 - 145 | X,* |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 10/2/2014

Reviewed By: 
Date: 10/2/2014



Frontier Analytical Laboratory
 5172 Hillside Circle
 El Dorado Hills, CA 95762
 Tel: 916-934-0900
 Fax: 916-934-0999

FAL USE ONLY

Laboratory Project No.: 8490
 Temperature: 0 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page _____ of _____

| | | |
|---------------------------------------|--|---|
| CLIENT INFORMATION | INVOICE INFORMATION (if different from client info) | PROJECT INFORMATION |
| Company Name: <u>MU</u> | Company Name: _____ | FAL Quote #: _____ |
| Contact Name: <u>Jen</u> | Contact Name: _____ | P.O. #: _____ |
| Address: <u>22741 PCH</u> | Address: _____ | Project #: _____ |
| Phone: <u>310 848 5400</u> Fax: _____ | Phone: _____ Fax: _____ | Project Name: _____ |
| Email: <u>JEN@malibuunites.com</u> | Email: _____ | TAT (business days): <input checked="" type="checkbox"/> 15 <input type="checkbox"/> 10 <input type="checkbox"/> 5* <input type="checkbox"/> 3* (√ one) |
| | | * FAL must agree with price and RUSH TAT in writing. |

| | | |
|--|--|--------------------------------|
| REPORT INFORMATION | REPORT DISTRIBUTION (email only is preferred) | ADDITIONAL INSTRUCTIONS |
| Report Level: <input type="checkbox"/> I/II <input type="checkbox"/> III <input type="checkbox"/> IV | <input type="checkbox"/> Hardcopy | |
| <input type="checkbox"/> EDD: <input type="checkbox"/> FAL Basic <input type="checkbox"/> Geotracker | <input type="checkbox"/> CD (.pdf including EDDs if requested) | |
| <input type="checkbox"/> Other: _____ <input type="checkbox"/> Custom: Contact FAL | <input checked="" type="checkbox"/> Email (.pdf including EDDs if requested) | |
| <input type="checkbox"/> California State Drinking Water Form | | |
| System #: _____ Source #: _____ | | |
| Sampler: _____ Employer: _____ | | |

| Sample ID | Date Collected | Time | Matrix | # of containers | EPA 1613** | EPA 8290** | DLM 02.0 | EPA 8280** | Appendix IX | EPA 10-9/9A | EPA 23/23A | EPA 1668 | FAL 15 | Other | **CONGENERS | **TEQ | Remarks | |
|-----------|----------------|-------|--------|-----------------|------------|------------|----------|------------|-------------|-------------|------------|----------|--------|-------|---|-----------------------------------|-----------------------|---------------------|
| | | | | | | | | | | | | | | | <input type="checkbox"/> 2,3,7,8-TCDD only | <input type="checkbox"/> 1998 WHO | | |
| 1 | 5-10-14 | 11:00 | | 1 | | | | | | | | | | | <input type="checkbox"/> 2,3,7,8-TCDD/F only | <input type="checkbox"/> 2005 WHO | vent-wipe-blw kit 3GR | |
| 2 | 5-10-14 | 11:15 | | 1 | | | | | | | | | | | <input type="checkbox"/> PCDD/F (Cl ₄ -Cl ₈) | <input type="checkbox"/> Other | caulk - mant theater | |
| 3 | 5-10-14 | 11:25 | | 1 | | | | | | | | | | | | | | caulk - |
| 4 | 5-10-14 | 11:30 | | 1 | | | | | | | | | | | | | | caulk |
| 5 | 5-10-14 | 11:40 | | | | | | | | | | | | | | | | - carpet sample |
| 6 | 5-10-14 | 11:45 | | 1 | | | | | | | | | | | | | | - caulk |
| 7 | 5-10-14 | 11:30 | | 1 | | | | | | | | | | | | | | - window glaze |
| 8 | 5-10-14 | 12- | | 1 | | | | | | | | | | | | | | wall vent dirt |
| 9 | 5-10-14 | 7:45 | | 1 | | | | | | | | | | | | | | wall vent soil |
| 10 | 5-10-14 | 7:50 | | 1 | | | | | | | | | | | | | | wall vent DUST/WIPE |
| 11 | | | | | | | | | | | | | | | | | | ceiling bulk-TT |
| 12 | | | | | | | | | | | | | | | | | | paint - TT |
| 13 | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | |

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

| | | | | | |
|--|-------------|-------------|--|----------------|-------------|
| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (Signature and Printed Name) | Date | Time |
| | | | <u>Valley Zip</u> <u>ICZIPP</u> | <u>5-13-14</u> | <u>920</u> |

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed. FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy -- Report Yellow Copy -- Laboratory Pink Copy -- Originator

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **8490**

| | |
|------------------------|---------------|
| Client: | Malibu Unites |
| Client Project ID: | Malibu Unites |
| Date Received: | 05/13/2014 |
| Time Received: | 09:20 am |
| Received By: | KZ |
| Logged In By: | KZ |
| # of Samples Received: | 12 |
| Duplicates: | 0 |
| Storage Location: | F2 |

| | |
|---|----------------------|
| Method of Delivery: | California Overnight |
| Tracking Number: | D10010681069063 |
| Shipping Container Received Intact | Yes |
| Custody seals(s) present? | Yes |
| Custody seals(s) intact? | Yes |
| Sample Arrival Temperature (C) | 0 |
| Cooling Method | Ice |
| Chain Of Custody Present? | Yes |
| Return Shipping Container To Client | No |
| Test aqueous sample for residual Chlorine | No |
| Sodium Thiosulfate Added | No |
| Adequate Sample Volume | Yes |
| Appropriate Sample Container | Yes |
| pH Range of Aqueous Sample | N/A |
| Anomalies or additional comments: | |
| | |



Frontier Analytical Laboratory
 5172 Hillside Circle
 El Dorado Hills, CA 95762
 Tel: 916-934-0900
 Fax: 916-934-0999

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page of

| CLIENT INFORMATION | | INVOICE | |
|---|--------------------------|---------------------------|--------------------------|
| Company Name: <u> </u> | Client Name: <u> </u> | Company Name: <u> </u> | Client Name: <u> </u> |
| Contact Name: <u> </u> | Address: <u> </u> | Address: <u> </u> | Address: <u> </u> |
| Phone: <u> </u> | Fax: <u> </u> | Phone: <u> </u> | Fax: <u> </u> |
| Email: <u> </u> | | | |
| REPORT INFORMATION | | REMARKS | |
| Report Level: <input type="checkbox"/> 01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 | | | |
| <input type="checkbox"/> EDD <input type="checkbox"/> FAL <input type="checkbox"/> Other: <u> </u> | | | |

SAMPLE ID: AS2

Frontier Analytical Laboratory

8490-010-SA

Client ID:

Sample #2 (01 of 01)

8490-010 (000) 233-8428 www.frontier.com

| PROJECT INFORMATION | |
|---|--|
| FAL Quote #: | |
| FAL #: | |
| Project #: | |
| Project Name: | |
| <input type="checkbox"/> FAL only <input checked="" type="checkbox"/> FAL & EDD <input type="checkbox"/> FAL & EDD & P&H <input type="checkbox"/> FAL & EDD & P&H & T&T (FAL must agree with price and EDD/T&T in writing) | |
| ADDITIONAL INSTRUCTIONS | |
| | |



Appendix A.7

**Third Party Reported Results
Frontier Analytical Laboratory Report Sample ID JJC1
October 2, 2014**

October 2, 2014

Ms. Jennifer DeNicola
Malibu Unites
22741 Pacific Coast Highway, Suite 401
Malibu, CA 90265

Dear Ms. DeNicola,

The following results are for Frontier Analytical Laboratory project **8489**. This corresponds to your Malibu Unites project. Fifteen solid samples were received on 5/13/2014. All fifteen samples were placed on hold per your instructions. On 6/9/2014 you requested we sub-contract out several samples to be analyzed following EPA Method 8082. This was completed on 6/19/2014. Eventually you requested we analyze sample 8489-013-SA (Malibu Unites ID: JJC1) for total PCB concentration using Modified EPA Method 1668C for all 209 PCB congeners. This was completed in August 2014 and concentrations were communicated to you. After numerous discussions you requested we go back and determine the concentration levels of PCB-126 in the sample.

Please note the following for your data sheets. The method blank and sample results are reported in ng/g (ppb). Our Modified EPA Method 1668C has a reporting limit (RL) of 25.0 ppb for each of the 209 PCB congeners. This reporting limit ensures that if all 209 PCB congeners are below the RL, cumulatively they are well below the action levels noted in the Toxic Substance Control Act (TSCA) of 50.0 ppm. Due to high levels of PCBs your sample had to be diluted and quantitated using an external standard. Therefore a true internal standard and cleanup surrogate recovery value is not available, hence the "X" and "*" qualifiers.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and a sample photo. The attached results are specifically for the sample referenced in this report only. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested.

If you have any questions regarding project **8489**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

This report and all analytical work have been provided to you as a "gesture in kind" with no associated invoice or cost to you.

Sincerely,



Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: 8489

Received on: 05/13/2014

Project Due: 06/05/2014

Storage: R2

| FAL Sample ID | Dup | Client Project ID | Client Sample ID | Requested Method | Matrix | Sampling Date | Sampling Time | Hold Time Due Date |
|---------------|-----|-------------------|------------------|------------------|--------|---------------|---------------|--------------------|
| 8489-001-SA | 0 | Malibu Unites | LL1 | EPA 1668 PCB | Solid | 05/10/2014 | 07:50 am | 05/10/2015 |
| 8489-002-SA | 0 | Malibu Unites | LL2 | EPA 1668 PCB | Solid | 05/10/2014 | 07:50 am | 05/10/2015 |
| 8489-003-SA | 0 | Malibu Unites | LL3 | EPA 1668 PCB | Solid | 05/10/2014 | 08:00 am | 05/10/2015 |
| 8489-004-SA | 0 | Malibu Unites | LL4 | EPA 1668 PCB | Solid | 05/10/2014 | 08:15 am | 05/10/2015 |
| 8489-005-SA | 0 | Malibu Unites | LL5 | EPA 1668 PCB | Solid | 05/10/2014 | 08:17 am | 05/10/2015 |
| 8489-006-SA | 0 | Malibu Unites | JJ1 | EPA 1668 PCB | Solid | 05/10/2014 | 08:45 am | 05/10/2015 |
| 8489-007-SA | 0 | Malibu Unites | BB1 | EPA 1668 PCB | Solid | 05/10/2014 | 09:05 am | 05/10/2015 |
| 8489-008-SA | 0 | Malibu Unites | BB2 | EPA 1668 PCB | Solid | 05/10/2014 | 09:05 am | 05/10/2015 |
| 8489-009-SA | 0 | Malibu Unites | BB3 | EPA 1668 PCB | Solid | 05/10/2014 | 09:05 am | 05/10/2015 |
| 8489-010-SA | 0 | Malibu Unites | BB4 | EPA 1668 PCB | Solid | 05/10/2014 | 09:10 am | 05/10/2015 |
| 8489-011-SA | 0 | Malibu Unites | BB5 | EPA 1668 PCB | Solid | 05/10/2014 | 09:38 am | 05/10/2015 |
| 8489-012-SA | 0 | Malibu Unites | KK1 | EPA 1668 PCB | Solid | 05/10/2014 | 09:54 am | 05/10/2015 |
| 8489-013-SA | 0 | Malibu Unites | JJC1 | EPA 1668 PCB | Solid | 05/10/2014 | 10:20 am | 05/10/2015 |
| 8489-014-SA | 0 | Malibu Unites | JJC2 | EPA 1668 PCB | Solid | 05/10/2014 | 10:30 am | 05/10/2015 |
| 8489-015-SA | 0 | Malibu Unites | JJC3 | EPA 1668 PCB | Solid | 05/10/2014 | 10:35 am | 05/10/2015 |

Modified EPA Method 1668C
PCBs



FAL ID: 8489-001-MB
Client ID: Method Blank
Matrix: Solid
Batch No: X3149

Date Extracted: 08-05-2014
Date Received: NA
Amount: 2.00 g

ICal: LRPCBFAL4-7-10-14
GC Column: DB1
Units: ng/g

Acquired: 08-06-2014
WHO TEQ: NA
Basis: Dry Weight

| Compound | Conc | RL | Qual |
|--------------------|-------|------------|------|
| PCB-126 | ND | 25.0 | |
| Internal Standards | % Rec | QC Limits | Qual |
| 13C-PCB-126 | 80.9 | 15.0 - 145 | |
| Cleanup Surrogate | | | |
| 13C-PCB-178 | 109 | 15.0 - 145 | |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 10/2/2014

Reviewed By: 
Date: 10/2/2014

Modified EPA Method 1668C
PCBs



FAL ID: 8489-001-OPR
Client ID: OPR
Matrix: Solid
Batch No: X3149

Date Extracted: 08-05-2014
Date Received: NA
Amount: 2.00 g

ICal: LRPCBFAL4-7-10-14
GC Column: DB1
Units: ng/ml

Acquired: 08-06-2014
WHO TEQ: NA

| Compound | Conc | QC Limits |
|--------------------|-----------|------------|
| PCB-126 | 434 | 200 - 600 |
| Internal Standards | | |
| % Rec | QC Limits | |
| 13C-PCB-126 | 82.7 | 15.0 - 145 |
| Cleanup Surrogate | | |
| 13C-PCB-178 | 99.0 | 15.0 - 145 |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 10/1/2014

Reviewed By: 
Date: 10/1/2014

Modified EPA Method 1668C
PCBs



FAL ID: 8489-013-SA
Client ID: JJC1
Matrix: Solid
Batch No: X3149

Date Extracted: 08-05-2014
Date Received: 05-13-2014
Amount: 0.11 g

ICal: LRPCBFAL4-7-10-14
GC Column: DB1
Units: ng/g

Acquired: 08-07-2014
WHO TEQ: NA
Basis: Dry Weight

| Compound | Conc | RL | Qual |
|----------|---------|------|------|
| PCB-126 | 122,000 | 25.0 | |

| Internal Standards | % Rec | QC Limits | Qual |
|--------------------|-------|------------|------|
| 13C-PCB-126 | NA | 15.0 - 145 | X,* |

| Cleanup Surrogate | | | |
|-------------------|----|------------|-----|
| 13C-PCB-178 | NA | 15.0 - 145 | X,* |

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 10/2/2014

Reviewed By: 
Date: 10/2/2014



Frontier Analytical Laboratory
 5172 Hillside Circle
 El Dorado Hills, CA 95762
 Tel: 916-934-0900
 Fax: 916-934-0999

FAL USE ONLY

Laboratory Project No.: 8489
 Temperature: 0 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page of

| CLIENT INFORMATION | INVOICE INFORMATION (if different from client info) | PROJECT INFORMATION |
|---|---|--|
| Company Name: <u>MU</u> Contact Name: <u>Jen</u> Address: <u>22741 PCIT, Malibu CA</u> Phone: <u>848 5400</u> Fax: <u>90265</u> Email: <u>Jen@malibuunits.com</u> | Company Name: _____ Contact Name: _____ Address: _____ Phone: _____ Fax: _____ Email: _____ | FAL Quote #: _____ P.O. #: _____ Project #: _____ Project Name: _____ TAT (business days): <input checked="" type="checkbox"/> 15 <input type="checkbox"/> 10 <input type="checkbox"/> 5* <input type="checkbox"/> 3* (None) * FAL must agree with price and RUSH TAT in writing. |

| REPORT INFORMATION | REPORT DISTRIBUTION (email only is preferred) | ADDITIONAL INSTRUCTIONS |
|--|---|-------------------------|
| Report Level: <input type="checkbox"/> I/II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> EDD: <input type="checkbox"/> FAL Basic <input type="checkbox"/> Geotracker <input type="checkbox"/> Other: _____ <input type="checkbox"/> Custom: Contact FAL <input type="checkbox"/> California State Drinking Water Form System #: _____ Source #: _____ Sampler: _____ Employer: _____ | <input type="checkbox"/> Hardcopy <input type="checkbox"/> CD (.pdf including EDDs if requested) <input checked="" type="checkbox"/> Email (.pdf including EDDs if requested) | |

| Sample ID | Date | Time | Matrix | # of containers | EPA 1613** | EPA 8290** | DLM 02.0 | EPA 8280** | Appendix IX | EPA TO-9/A | EPA 23/23A | EPA 1668 | FAL 15 | Other | **CONGENERS | **TEQ | Remarks |
|-----------|------|---------|--------|-----------------|------------|------------|----------|------------|-------------|------------|------------|----------|--------|-------|---|-----------------------------------|------------------------|
| | | | | | | | | | | | | | | | <input type="checkbox"/> 2,3,7,8-TCDD only | <input type="checkbox"/> 1998 WHO | |
| | | | | | | | | | | | | | | | <input type="checkbox"/> 2,3,7,8-TCDD/F only | <input type="checkbox"/> 2005 WHO | |
| | | | | | | | | | | | | | | | <input type="checkbox"/> PCDD/F (Cl ₄ -Cl ₆) | <input type="checkbox"/> Other | |
| 1 | LL1 | 5:10 | 7:50 | 1 | | | | | | | | | | | | | Caulk |
| 2 | LL2 | 5-10 | 7:50 | 1 | | | | | | | | | | | | | Caulk |
| 3 | LL3 | 5-10 | 8 AM | 1 | | | | | | | | | | | | | DIRT / DUST |
| 4 | LL4 | 5-10 | 8:15 | 1 | | | | | | | | | | | | | WIPE DUST |
| 5 | LL5 | 5-10 | 8:17 | 1 | | | | | | | | | | | | | CAULK |
| 6 | JJ1 | 5-10-14 | 8:45 | 1 | | | | | | | | | | | | | CAULK |
| 7 | BB1 | 5:10.14 | 9:05 | 1 | | | | | | | | | | | | | Felt-vent |
| 8 | BB2 | 5:10.14 | 9:05 | 1 | | | | | | | | | | | | | vent-wipe |
| 9 | BB3 | 5:10.14 | 9:05 | 1 | | | | | | | | | | | | | wipe-inside cab/french |
| 10 | BB4 | 5:10.14 | 9:10 | 1 | | | | | | | | | | | | | wipe-undersink-trench |
| 11 | BB5 | 5:10.14 | 9:38 | 1 | | | | | | | | | | | | | Soil-in wall vent |
| 12 | KK1 | 5:10.14 | 9:54 | 1 | | | | | | | | | | | | | Soil-in wall vent |
| 13 | JJC1 | 5:10.14 | 10:20 | 1 | | | | | | | | | | | | | caulk -1 |
| 14 | JJC2 | 5:10.14 | 10:30 | 1 | | | | | | | | | | | | | caulk bathroom |
| 15 | JJC3 | 5:10.14 | 10:35 | 1 | | | | | | | | | | | | | caulk-outside bathroom |

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

| Relinquished by: (Signature and Printed Name) | Date | Time | Received by: (Signature and Printed Name) | Date | Time |
|---|------|------|---|---------|------|
| | | | <u>Katelyn [Signature]</u> KZUPP | 5/13/14 | 920 |

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed. FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy - Report

Yellow Copy - Laboratory

Pink Copy - Originator

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **8489**

| | |
|------------------------|---------------|
| Client: | Malibu Unites |
| Client Project ID: | Malibu Unites |
| Date Received: | 05/13/2014 |
| Time Received: | 09:20 am |
| Received By: | KZ |
| Logged In By: | KZ |
| # of Samples Received: | 15 |
| Duplicates: | 0 |
| Storage Location: | R2 |

| | |
|---|----------------------|
| Method of Delivery: | California Overnight |
| Tracking Number: | D10010681069063 |
| Shipping Container Received Intact | Yes |
| Custody seals(s) present? | Yes |
| Custody seals(s) intact? | Yes |
| Sample Arrival Temperature (C) | 0 |
| Cooling Method | Ice |
| Chain Of Custody Present? | Yes |
| Return Shipping Container To Client | Yes |
| Test aqueous sample for residual Chlorine | No |
| Sodium Thiosulfate Added | No |
| Adequate Sample Volume | Yes |
| Appropriate Sample Container | Yes |
| pH Range of Aqueous Sample | N/A |
| Anomalies or additional comments: | |
| | |

FRONTIER

Frontier Analytical Laboratory
 5172 Hillside Circle
 El Dorado Hills, CA 95762
 Tel: (916) 934-0900
 Fax: (916) 934-0999

FOR USE ONLY

Laboratory Project No. **8489**
 Investigator: **D**

Chain of Custody

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 Please Print in Ink Page **1** of **1**

| CLIENT INFORMATION | INVOLVING INFORMATION | PREPARE INFORMATION |
|--------------------------|-----------------------|---------------------|
| Company Name: LL1 | Company Name: | Case Name: |
| Contact Name: LL1 | Company Name: | Case Name: |
| Address: | Company Name: | Case Name: |
| City: | Company Name: | Case Name: |
| State: | Company Name: | Case Name: |
| Zip: | Company Name: | Case Name: |
| Phone: | Company Name: | Case Name: |
| Fax: | Company Name: | Case Name: |
| E-mail: | Company Name: | Case Name: |
| Project: | Company Name: | Case Name: |
| Product: | Company Name: | Case Name: |
| Sample ID: | Company Name: | Case Name: |
| Sample Description: | Company Name: | Case Name: |
| Sample Location: | Company Name: | Case Name: |
| Sample Date: | Company Name: | Case Name: |
| Sample Time: | Company Name: | Case Name: |
| Sample Temperature: | Company Name: | Case Name: |
| Sample Condition: | Company Name: | Case Name: |
| Sample Container: | Company Name: | Case Name: |
| Sample Volume: | Company Name: | Case Name: |
| Sample Weight: | Company Name: | Case Name: |
| Sample Analysis: | Company Name: | Case Name: |
| Sample Results: | Company Name: | Case Name: |
| Sample Comments: | Company Name: | Case Name: |

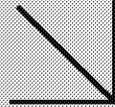


Appendix A.8

**Third Party Reported Results
Eurofins Calscience Report Sample ID MH3
October 8, 2014**

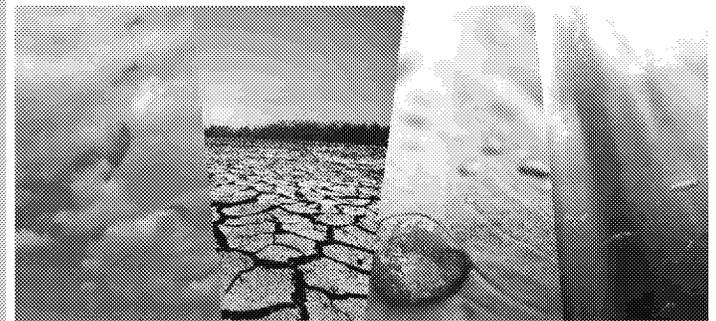


Calscience



WORK ORDER NUMBER: 14-09-2329

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Malibu Unites

Client Project Name: M.H. 3

Attention: Jennifer deNicola

22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Approved for release on 10/08/2014 by:
Don Burley
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: M.H. 3
Work Order Number: 14-09-2329

| | | |
|---|---|----|
| 1 | Work Order Narrative. | 3 |
| 2 | Sample Summary. | 4 |
| 3 | Detections Summary. | 5 |
| 4 | Client Sample Data. | 6 |
| | 4.1 EPA 8082 PCB Aroclors (Solid). | 6 |
| 5 | Quality Control Sample Data. | 7 |
| | 5.1 LCS/LCSD. | 7 |
| 6 | Sample Analysis Summary. | 8 |
| 7 | Glossary of Terms and Qualifiers. | 9 |
| 8 | Chain-of-Custody/Sample Receipt Form. | 10 |

Work Order: 14-09-2329Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/30/14. They were assigned to Work Order 14-09-2329.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Sample Summary

| | | |
|------------------------------------|-----------------------|----------------|
| Client: Malibu Unites | Work Order: | 14-09-2329 |
| 22741 Pacific Coast Hwy, Suite 401 | Project Name: | M.H. 3 |
| Malibu, CA 90265-5876 | PO Number: | |
| | Date/Time Received: | 09/30/14 10:10 |
| | Number of Containers: | 1 |

Attn: Jennifer deNicola

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|--------------|--------------------------|----------------------|--------|
| MH3 | 14-09-2329-1 | 09/23/14 15:37 | 1 | Solid |

Detections Summary

Client: Malibu Unites
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Work Order: 14-09-2329
Project Name: M.H. 3
Received: 09/30/14

Attn: Jennifer deNicola

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Client SampleID

| <u>Analyte</u> | <u>Result</u> | <u>Qualifiers</u> | <u>RL</u> | <u>Units</u> | <u>Method</u> | <u>Extraction</u> |
|------------------------------------|---------------|-------------------|-----------|--------------|---------------|-------------------|
| MH3 (14-09-2329-1) Aroclor-1254 | 330 | | 33 | mg/kg | EPA 8082 | EPA 3540C |

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 09/30/14
 Work Order: 14-09-2329
 Preparation: EPA 3540C
 Method: EPA 8082
 Units: mg/kg

Project: M.H. 3

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| MH3 | 14-09-2329-1-A | 09/23/14 15:37 | Solid | GC 31 | 10/01/14 | 10/07/14 10:42 | 141001L29 |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|----|-----|------------|
| Aroclor-1016 | ND | 33 | 100 | |
| Aroclor-1221 | ND | 33 | 100 | |
| Aroclor-1232 | ND | 33 | 100 | |
| Aroclor-1242 | ND | 33 | 100 | |
| Aroclor-1248 | ND | 33 | 100 | |
| Aroclor-1254 | 330 | 33 | 100 | |
| Aroclor-1260 | ND | 33 | 100 | |
| Aroclor-1262 | ND | 33 | 100 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 118 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 134 | 25-145 | |

| Method Blank | 099-12-535-2890 | N/A | Solid | GC 31 | 10/01/14 | 10/06/14 16:57 | 141001L29 |
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|------|------------|
| Aroclor-1016 | ND | 0.050 | 1.00 | |
| Aroclor-1221 | ND | 0.050 | 1.00 | |
| Aroclor-1232 | ND | 0.050 | 1.00 | |
| Aroclor-1242 | ND | 0.050 | 1.00 | |
| Aroclor-1248 | ND | 0.050 | 1.00 | |
| Aroclor-1254 | ND | 0.050 | 1.00 | |
| Aroclor-1260 | ND | 0.050 | 1.00 | |
| Aroclor-1262 | ND | 0.050 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 111 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 119 | 25-145 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Quality Control - LCS/LCSD

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 09/30/14
 Work Order: 14-09-2329
 Preparation: EPA 3540C
 Method: EPA 8082

Project: M.H. 3

Page 1 of 1

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|------|--------|------------|---------------|----------------|-----------------------|
| 099-12-535-2890 | LCS | Solid | GC 31 | 10/01/14 | 10/06/14 16:19 | 141001L29 |
| 099-12-535-2890 | LCSD | Solid | GC 31 | 10/01/14 | 10/06/14 16:38 | 141001L29 |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|--------------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Aroclor-1016 | 0.1000 | 0.1330 | 133 | 0.1333 | 133 | 50-135 | 0 | 0-20 | |
| Aroclor-1260 | 0.1000 | 0.1342 | 134 | 0.1349 | 135 | 50-135 | 1 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 14-09-2329

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| <u>Method</u> | <u>Extraction</u> | <u>Chemist ID</u> | <u>Instrument</u> | <u>Analytical Location</u> |
|---------------|-------------------|-------------------|-------------------|----------------------------|
| EPA 8082 | EPA 3540C | 669 | GC 31 | 1 |

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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Calscience

WORK ORDER #: 14-09-2329

SAMPLE RECEIPT FORM

Envelope
Cooler 1 of 1
8/26 9/20/14

CLIENT: Malibu Sch.

DATE: 09/30/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 22.9 °C - 0.3 °C (CF) = 22.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 876

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 876

Sample _____ No (Not Intact) Not Present Checked by: 876

| SAMPLE CONDITION: | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Collection date/time, <u>matrix</u> , and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper <u>containers</u> and sufficient volume for analyses requested..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| CONTAINER TYPE: | | | |
| Solid: <input type="checkbox"/> 4ozCGJ <input type="checkbox"/> 8ozCGJ <input type="checkbox"/> 16ozCGJ <input type="checkbox"/> Sleeve (____) <input type="checkbox"/> EnCores® <input type="checkbox"/> TerraCores® <input checked="" type="checkbox"/> <u>Z</u> | | | |
| Aqueous: <input type="checkbox"/> VOA <input type="checkbox"/> VOA _h <input type="checkbox"/> VOA _{na2} <input type="checkbox"/> 125AGB <input type="checkbox"/> 125AGB _h <input type="checkbox"/> 125AGB _p <input type="checkbox"/> 1AGB <input type="checkbox"/> 1AGB _{na2} <input type="checkbox"/> 1AGB _s | | | |
| <input type="checkbox"/> 500AGB <input type="checkbox"/> 500AGJ <input type="checkbox"/> 500AGJ _s <input type="checkbox"/> 250AGB <input type="checkbox"/> 250CGB <input type="checkbox"/> 250CGB _s <input type="checkbox"/> 1PB <input type="checkbox"/> 1PB _{na} <input type="checkbox"/> 500PB | | | |
| <input type="checkbox"/> 250PB <input type="checkbox"/> 250PB _n <input type="checkbox"/> 125PB <input type="checkbox"/> 125PB _{z_{na}} <input type="checkbox"/> 100PJ <input type="checkbox"/> 100PJ _{na2} <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ | | | |
| Air: <input type="checkbox"/> Tedlar® <input type="checkbox"/> Canister Other: <input type="checkbox"/> _____ Trip Blank Lot#: _____ Labeled/Checked by: <u>876</u> | | | |
| Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: <u>300</u> | | | |
| Preservative: h: HCL n: HNO ₃ na ₂ : Na ₂ S ₂ O ₃ na: NaOH p: H ₃ PO ₄ s: H ₂ SO ₄ u: Ultra-pure z _{na} : ZnAc ₂ +NaOH f: Filtered Scanned by: <u>300</u> | | | |

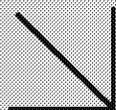
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Appendix A.9

**Third Party Reported Results
Eurofins Calscience Report Sample ID MH704
October 8, 2014**

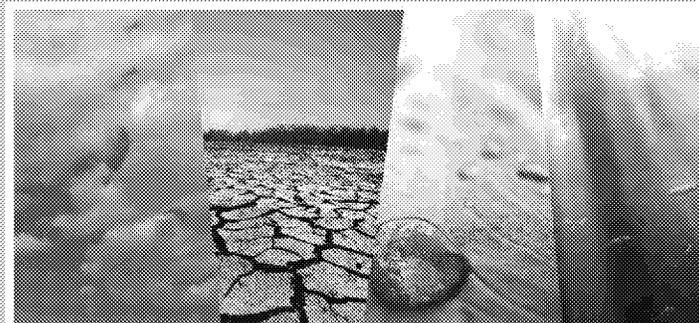


Calscience



WORK ORDER NUMBER: 14-09-2338

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Malibu Unites

Client Project Name: M.H.S. 704

Attention: Jennifer deNicola
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Approved for release on 10/08/2014 by:
Don Burley
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: M.H.S. 704
Work Order Number: 14-09-2338

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| 3 | Detections Summary. | 5 |
| 4 | Client Sample Data. | 6 |
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| 5 | Quality Control Sample Data. | 7 |
| | 5.1 LCS/LCSD. | 7 |
| 6 | Sample Analysis Summary. | 8 |
| 7 | Glossary of Terms and Qualifiers. | 9 |
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Work Order: 14-09-2338

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/30/14. They were assigned to Work Order 14-09-2338.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Sample Summary

| | | |
|------------------------------------|-----------------------|----------------|
| Client: Malibu Unites | Work Order: | 14-09-2338 |
| 22741 Pacific Coast Hwy, Suite 401 | Project Name: | M.H.S. 704 |
| Malibu, CA 90265-5876 | PO Number: | |
| | Date/Time Received: | 09/30/14 10:10 |
| | Number of Containers: | 1 |

Attn: Jennifer deNicola

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|--------------|--------------------------|----------------------|--------|
| MH704 | 14-09-2338-1 | 09/23/14 15:31 | 1 | Solid |

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Detections Summary

| | |
|------------------------------------|--------------------------|
| Client: Malibu Unites | Work Order: 14-09-2338 |
| 22741 Pacific Coast Hwy, Suite 401 | Project Name: M.H.S. 704 |
| Malibu, CA 90265-5876 | Received: 09/30/14 |

Attn: Jennifer deNicola

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Client SampleID

| <u>Analyte</u> | <u>Result</u> | <u>Qualifiers</u> | <u>RL</u> | <u>Units</u> | <u>Method</u> | <u>Extraction</u> |
|--------------------------------------|---------------|-------------------|-----------|--------------|---------------|-------------------|
| MH704 (14-09-2338-1) Aroclor-1254 | 4700 | | 360 | mg/kg | EPA 8082 | EPA 3540C |

Subcontracted analyses, if any, are not included in this summary.


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* MDL is shown

Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 09/30/14
 Work Order: 14-09-2338
 Preparation: EPA 3540C
 Method: EPA 8082
 Units: mg/kg

Project: M.H.S. 704

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| MH704 | 14-09-2338-1-A | 09/23/14 15:31 | Solid | GC 31 | 10/01/14 | 10/07/14 13:53 | 141001L29 |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-----|------|------------|
| Aroclor-1016 | ND | 360 | 1000 | |
| Aroclor-1221 | ND | 360 | 1000 | |
| Aroclor-1232 | ND | 360 | 1000 | |
| Aroclor-1242 | ND | 360 | 1000 | |
| Aroclor-1248 | ND | 360 | 1000 | |
| Aroclor-1254 | 4700 | 360 | 1000 | |
| Aroclor-1260 | ND | 360 | 1000 | |
| Aroclor-1262 | ND | 360 | 1000 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 150 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 140 | 25-145 | |

| Method Blank | 099-12-535-2890 | N/A | Solid | GC 31 | 10/01/14 | 10/06/14 16:57 | 141001L29 |
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|------|------------|
| Aroclor-1016 | ND | 0.050 | 1.00 | |
| Aroclor-1221 | ND | 0.050 | 1.00 | |
| Aroclor-1232 | ND | 0.050 | 1.00 | |
| Aroclor-1242 | ND | 0.050 | 1.00 | |
| Aroclor-1248 | ND | 0.050 | 1.00 | |
| Aroclor-1254 | ND | 0.050 | 1.00 | |
| Aroclor-1260 | ND | 0.050 | 1.00 | |
| Aroclor-1262 | ND | 0.050 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 111 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 119 | 25-145 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - LCS/LCSD

Malibu Unites
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Date Received: 09/30/14
Work Order: 14-09-2338
Preparation: EPA 3540C
Method: EPA 8082

Project: M.H.S. 704

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-12-535-2890 | LCS | Solid | GC 31 | 10/01/14 | 10/06/14 16:19 | 141001L29 | | | |
| 099-12-535-2890 | LCSD | Solid | GC 31 | 10/01/14 | 10/06/14 16:38 | 141001L29 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Aroclor-1016 | 0.1000 | 0.1330 | 133 | 0.1333 | 133 | 50-135 | 0 | 0-20 | |
| Aroclor-1260 | 0.1000 | 0.1342 | 134 | 0.1349 | 135 | 50-135 | 1 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 14-09-2338

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| <u>Method</u> | <u>Extraction</u> | <u>Chemist ID</u> | <u>Instrument</u> | <u>Analytical Location</u> |
|---------------|-------------------|-------------------|-------------------|----------------------------|
| EPA 8082 | EPA 3540C | 669 | GC 31 | 1 |


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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Calscience

WORK ORDER #: 14-09-2338

SAMPLE RECEIPT FORM

Envelope
Cooler 1 of 1
8/26 9/20/14

CLIENT: Malibu Sch.

DATE: 09/30/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 22.9 °C - 0.3°C (CF) = 22.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 836

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 836

Sample _____ No (Not Intact) Not Present Checked by: 836

| SAMPLE CONDITION: | Yes | No | N/A |
|---|--------------------------|-------------------------------------|--------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Collection date/time, <u>matrix</u> , and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <u>Proper containers</u> and sufficient volume for analyses requested..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | | | |
| Proper preservation noted on COC or sample container..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CONTAINER TYPE: | | | |
| Solid: <input type="checkbox"/> 4ozCGJ <input type="checkbox"/> 8ozCGJ <input type="checkbox"/> 16ozCGJ <input type="checkbox"/> Sleeve (____) <input type="checkbox"/> EnCores® <input type="checkbox"/> TerraCores® <input checked="" type="checkbox"/> <u>Z</u> | | | |
| Aqueous: <input type="checkbox"/> VOA <input type="checkbox"/> VOA _h <input type="checkbox"/> VOA _{na2} <input type="checkbox"/> 125AGB <input type="checkbox"/> 125AGB _h <input type="checkbox"/> 125AGB _p <input type="checkbox"/> 1AGB <input type="checkbox"/> 1AGB _{na2} <input type="checkbox"/> 1AGB _s | | | |
| <input type="checkbox"/> 500AGB <input type="checkbox"/> 500AGJ <input type="checkbox"/> 500AGJ _s <input type="checkbox"/> 250AGB <input type="checkbox"/> 250CGB <input type="checkbox"/> 250CGB _s <input type="checkbox"/> 1PB <input type="checkbox"/> 1PB _{na} <input type="checkbox"/> 500PB | | | |
| <input type="checkbox"/> 250PB <input type="checkbox"/> 250PB _n <input type="checkbox"/> 125PB <input type="checkbox"/> 125PB _z <u>na</u> <input type="checkbox"/> 100PJ <input type="checkbox"/> 100PJ _{na2} <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ | | | |
| Air: <input type="checkbox"/> Tedlar® <input type="checkbox"/> Canister Other: <input type="checkbox"/> _____ Trip Blank Lot#: _____ Labeled/Checked by: <u>836</u> | | | |
| Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: <u>681</u> | | | |
| Preservative: h: HCL n: HNO ₃ na ₂ : Na ₂ S ₂ O ₃ na: NaOH p: H ₃ PO ₄ s: H ₂ SO ₄ u: Ultra-pure z _{na} : ZnAc ₂ +NaOH f: Filtered Scanned by: <u>681</u> | | | |

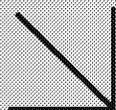
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Appendix A.10

**Third Party Reported Results
Eurofins Calscience Report Sample ID JC OFFICE
December 5, 2014**



Calscience



WORK ORDER NUMBER: 14-11-2194

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Malibu Unites

Client Project Name: JC Office

Attention: Jennifer deNicola

22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Approved for release on 12/05/2014 by:
Don Burley
Project Manager

ResultLink ▶

Email your PM ▶



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Client Project Name: JC Office
Work Order Number: 14-11-2194

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| 4 | Client Sample Data. | 6 |
| | 4.1 EPA 8082 PCB Aroclors (Solid). | 6 |
| 5 | Quality Control Sample Data. | 7 |
| | 5.1 LCS/LCSD. | 7 |
| 6 | Sample Analysis Summary. | 8 |
| 7 | Glossary of Terms and Qualifiers. | 9 |
| 8 | Chain-of-Custody/Sample Receipt Form. | 10 |

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/28/14. They were assigned to Work Order 14-11-2194.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Sample Summary

| | |
|------------------------------------|------------------------------------|
| Client: Malibu Unites | Work Order: 14-11-2194 |
| 22741 Pacific Coast Hwy, Suite 401 | Project Name: JC Office |
| Malibu, CA 90265-5876 | PO Number: |
| | Date/Time Received: 11/28/14 09:20 |
| | Number of Containers: 1 |

Attn: Jennifer deNicola

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|--------------|--------------------------|----------------------|--------|
| JC Office | 14-11-2194-1 | 11/20/14 16:00 | 1 | Solid |

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Detections Summary

| | |
|------------------------------------|-------------------------|
| Client: Malibu Unites | Work Order: 14-11-2194 |
| 22741 Pacific Coast Hwy, Suite 401 | Project Name: JC Office |
| Malibu, CA 90265-5876 | Received: 11/28/14 |

Attn: Jennifer deNicola

Page 1 of 1

Client SampleID

| <u>Analyte</u> | <u>Result</u> | <u>Qualifiers</u> | <u>RL</u> | <u>Units</u> | <u>Method</u> | <u>Extraction</u> |
|--|---------------|-------------------|-----------|--------------|---------------|-------------------|
| JC Office (14-11-2194-1) Aroclor-1254 | 710 | | 260 | mg/kg | EPA 8082 | EPA 3550B |

Subcontracted analyses, if any, are not included in this summary.


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* MDL is shown

Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 11/28/14
 Work Order: 14-11-2194
 Preparation: EPA 3550B
 Method: EPA 8082
 Units: mg/kg

Project: JC Office

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| JC Office | 14-11-2194-1-A | 11/20/14 16:00 | Solid | GC 31 | 12/02/14 | 12/05/14 13:40 | 141202L06 |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-----|-----|------------|
| Aroclor-1016 | ND | 260 | 100 | |
| Aroclor-1221 | ND | 260 | 100 | |
| Aroclor-1232 | ND | 260 | 100 | |
| Aroclor-1242 | ND | 260 | 100 | |
| Aroclor-1248 | ND | 260 | 100 | |
| Aroclor-1254 | 710 | 260 | 100 | |
| Aroclor-1260 | ND | 260 | 100 | |
| Aroclor-1262 | ND | 260 | 100 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 120 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 89 | 25-145 | |

| Method Blank | 099-12-535-2968 | N/A | Solid | GC 58 | 12/02/14 | 12/05/14 10:53 | 141202L06 |
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|------|------------|
| Aroclor-1016 | ND | 0.050 | 1.00 | |
| Aroclor-1221 | ND | 0.050 | 1.00 | |
| Aroclor-1232 | ND | 0.050 | 1.00 | |
| Aroclor-1242 | ND | 0.050 | 1.00 | |
| Aroclor-1248 | ND | 0.050 | 1.00 | |
| Aroclor-1254 | ND | 0.050 | 1.00 | |
| Aroclor-1260 | ND | 0.050 | 1.00 | |
| Aroclor-1262 | ND | 0.050 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 87 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 84 | 25-145 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - LCS/LCSD

Malibu Unites
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Date Received: 11/28/14
Work Order: 14-11-2194
Preparation: EPA 3550B
Method: EPA 8082

Project: JC Office

Page 1 of 1

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-12-535-2968 | LCS | Solid | GC 58 | 12/02/14 | 12/05/14 10:17 | 141202L06 | | | |
| 099-12-535-2968 | LCSD | Solid | GC 58 | 12/02/14 | 12/05/14 10:35 | 141202L06 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Aroclor-1016 | 0.1000 | 0.09831 | 98 | 0.09121 | 91 | 50-135 | 7 | 0-20 | |
| Aroclor-1260 | 0.1000 | 0.1011 | 101 | 0.09159 | 92 | 50-135 | 10 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 14-11-2194

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| <u>Method</u> | <u>Extraction</u> | <u>Chemist ID</u> | <u>Instrument</u> | <u>Analytical Location</u> |
|---------------|-------------------|-------------------|-------------------|----------------------------|
| EPA 8082 | EPA 3550B | 669 | GC 31 | 1 |


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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

CHAIN-OF-CUSTODY RECORD

DATE: 11/24/14
PAGE: 6 of 14

WO NO. / LAB USE ONLY
14-11-2194

CLIENT PROJECT NAME / NO.: **MUZZO1 - Coffee**
LAB CONTACT OR QUOTE NO.:
PROJECT CONTACT: **JEN DENICOLA**
LOG CODE:
SAMPLER(S): (PRINT)

LABORATORY CLIENT: **Malibu Unites**
ADDRESS: **22741 PCH #401**
CITY: **Malibu** STATE: **CA** ZIP: **90265**
TEL: **310.436.6000** E-MAIL: **Jen@malibuunites.com**
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD
EDD:
 COELT EDF OTHER

REQUESTED ANALYSES
Please check box or fill in blank as needed.

| LAB USE ONLY | SAMPLE ID | SAMPLING | | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered | TPH (g) <input type="checkbox"/> GRO | TPH (d) <input type="checkbox"/> DRD | TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44 | BTEX / MTBE <input type="checkbox"/> 8260 | VOCs (8260) | Oxygenates (8260) | Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core | SVOCs (8270) | Pesticides (8081) | PCBs (8082) | PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM | T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X | Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6 | |
|--------------|-------------------------|----------|------|--------|--------------|-------------|-----------|----------------|--------------------------------------|--------------------------------------|---|---|-------------|-------------------|--|--------------|-------------------|-------------|--|--|---|--|
| | | DATE | TIME | | | | | | | | | | | | | | | | | | | |
| | LAB USE ONLY | 11/20/14 | 4pm | | | | | | | | | | | | | | | | | | | |
| | JC Office | 11/20/14 | 4pm | | | | | | | | | | | | | | | | | | | |

Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: 11/28/14 Time: 0920
 Received by: (Signature/Affiliation) **Jen**
 Received by: (Signature/Affiliation) _____
 Received by: (Signature/Affiliation) **Jen** (Fedex)

From: (310) 848-5400
Jennifer deNicola

Origin ID: CIBA



22741 Pacific Coast Hwy, Suite
Malibu, CA 90265



J142214092303uv

Ship Date: 25NOV14
ActWgt: 1.0 LB
CAD: 107061989/INET3550

2194

Delivery Address Bar Code



SHIP TO: (714) 895-5494

BILL SENDER

Don Burley
Eurofins
7440 Lincoln Way

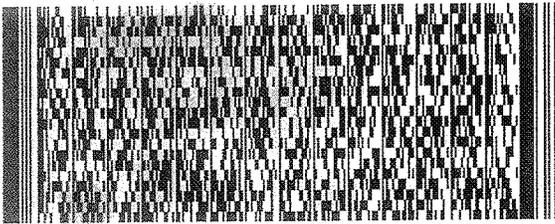
GARDEN GROVE, CA 92841

Ref # Test JC
Invoice #
PO #
Dept #

RELEASE#: 3785346

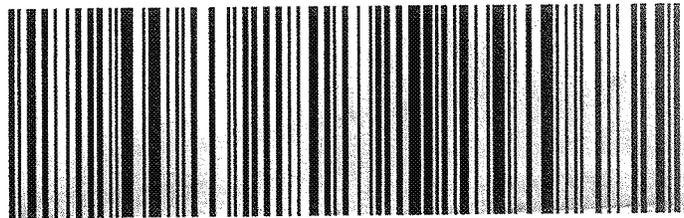
FRI - 28 NOV 10:30A
MORNING 2DAY

TRK# 7719 9433 8664
0201



92841
CA-US
SNA

SH APVA



522G1J516C8AC9

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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Calscience

WORK ORDER #: 14-11-2194

SAMPLE RECEIPT FORM

Envelope
Cooler / of /
no #128114

CLIENT: Malibu Unites

DATE: 11/28/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 21.9 °C - 0.2 °C (CF) = 21.7 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 836

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 836

Sample _____ No (Not Intact) Not Present Checked by: 300

| SAMPLE CONDITION: | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input checked="" type="checkbox"/> Not relinquished. <input checked="" type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® Z

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_{znna} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 836

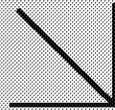
Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure znna: ZnAc₂+NaOH f: Filtered Scanned by: 300

Appendix A.11

**Third Party Reported Results
Eurofins Calscience Report Sample ID JC18
December 5, 2014**

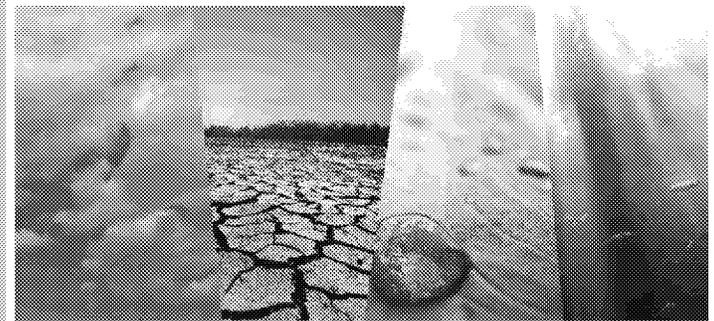


Calscience



WORK ORDER NUMBER: 14-11-2196

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Malibu Unites

Client Project Name: JC18

Attention: Jennifer deNicola
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Approved for release on 12/05/2014 by:
Don Burley
Project Manager

ResultLink ▶

Email your PM ▶



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Client Project Name: JC18
Work Order Number: 14-11-2196

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| 1 | Work Order Narrative. | 3 |
| 2 | Sample Summary. | 4 |
| 3 | Detections Summary. | 5 |
| 4 | Client Sample Data. | 6 |
| | 4.1 EPA 8082 PCB Aroclors (Solid). | 6 |
| 5 | Quality Control Sample Data. | 7 |
| | 5.1 LCS/LCSD. | 7 |
| 6 | Sample Analysis Summary. | 8 |
| 7 | Glossary of Terms and Qualifiers. | 9 |
| 8 | Chain-of-Custody/Sample Receipt Form. | 10 |

Work Order: 14-11-2196

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/28/14. They were assigned to Work Order 14-11-2196.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Sample Summary

| | |
|------------------------------------|------------------------------------|
| Client: Malibu Unites | Work Order: 14-11-2196 |
| 22741 Pacific Coast Hwy, Suite 401 | Project Name: JC18 |
| Malibu, CA 90265-5876 | PO Number: |
| | Date/Time Received: 11/28/14 09:20 |
| | Number of Containers: 1 |

Attn: Jennifer deNicola

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|--------------|--------------------------|----------------------|--------|
| JC18 | 14-11-2196-1 | 11/20/14 16:00 | 1 | Solid |

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Detections Summary

Client: Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Work Order: 14-11-2196
 Project Name: JC18
 Received: 11/28/14

Attn: Jennifer deNicola

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Client SampleID

| <u>Analyte</u> | <u>Result</u> | <u>Qualifiers</u> | <u>RL</u> | <u>Units</u> | <u>Method</u> | <u>Extraction</u> |
|-------------------------------------|---------------|-------------------|-----------|--------------|---------------|-------------------|
| JC18 (14-11-2196-1) Aroclor-1254 | 110000 | | 34000 | mg/kg | EPA 8082 | EPA 3550B |

Subcontracted analyses, if any, are not included in this summary.


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* MDL is shown

Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 11/28/14
 Work Order: 14-11-2196
 Preparation: EPA 3550B
 Method: EPA 8082
 Units: mg/kg

Project: JC18

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| JC18 | 14-11-2196-1-A | 11/20/14 16:00 | Solid | GC 31 | 12/02/14 | 12/05/14 16:13 | 141202L06 |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|-------|------------|
| Aroclor-1016 | ND | 34000 | 50000 | |
| Aroclor-1221 | ND | 34000 | 50000 | |
| Aroclor-1232 | ND | 34000 | 50000 | |
| Aroclor-1242 | ND | 34000 | 50000 | |
| Aroclor-1248 | ND | 34000 | 50000 | |
| Aroclor-1254 | 110000 | 34000 | 50000 | |
| Aroclor-1260 | ND | 34000 | 50000 | |
| Aroclor-1262 | ND | 34000 | 50000 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 0 | 24-168 | 1,2,6 |
| 2,4,5,6-Tetrachloro-m-Xylene | 0 | 25-145 | 1,2,6 |

| Method Blank | 099-12-535-2968 | N/A | Solid | GC 58 | 12/02/14 | 12/05/14 10:53 | 141202L06 |
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|------|------------|
| Aroclor-1016 | ND | 0.050 | 1.00 | |
| Aroclor-1221 | ND | 0.050 | 1.00 | |
| Aroclor-1232 | ND | 0.050 | 1.00 | |
| Aroclor-1242 | ND | 0.050 | 1.00 | |
| Aroclor-1248 | ND | 0.050 | 1.00 | |
| Aroclor-1254 | ND | 0.050 | 1.00 | |
| Aroclor-1260 | ND | 0.050 | 1.00 | |
| Aroclor-1262 | ND | 0.050 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 87 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 84 | 25-145 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Quality Control - LCS/LCSD

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 11/28/14
 Work Order: 14-11-2196
 Preparation: EPA 3550B
 Method: EPA 8082

Project: JC18

Page 1 of 1

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-12-535-2968 | LCS | Solid | GC 58 | 12/02/14 | 12/05/14 10:17 | 141202L06 | | | |
| 099-12-535-2968 | LCSD | Solid | GC 58 | 12/02/14 | 12/05/14 10:35 | 141202L06 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Aroclor-1016 | 0.1000 | 0.09831 | 98 | 0.09121 | 91 | 50-135 | 7 | 0-20 | |
| Aroclor-1260 | 0.1000 | 0.1011 | 101 | 0.09159 | 92 | 50-135 | 10 | 0-25 | |



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RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 14-11-2196

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| <u>Method</u> | <u>Extraction</u> | <u>Chemist ID</u> | <u>Instrument</u> | <u>Analytical Location</u> |
|---------------|-------------------|-------------------|-------------------|----------------------------|
| EPA 8082 | EPA 3550B | 669 | GC 31 | 1 |


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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT:

ADDRESS: Malibu Unites
22741 PCH #401
CITY: Malibu STATE: CA ZIP: 90265
TEL: 310.436.6000 E-MAIL: Jen@malibuunites.com

TURNAROUND TIME (rush surcharges may apply to any "AT" not "STANDARD"):

SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

EDD:

COELTEF OTHER

SPECIAL INSTRUCTIONS:

CHAIN-OF-CUSTODY RECORD

DATE: 11/24/14
PAGE: 5 of 7

WO NO. / LAB USE ONLY
14-11-2196

CLIENT PROJECT NAME / NO.: MUSE-1 JC18
LAB CONTACT OR QUOTE NO.:
PROJECT CONTACT: JEN DENICOLA
GLOBAL ID: LOG CODE:
SAMPLER(S): (PRINT)

REQUESTED ANALYSES

Please check box or fill in blank as needed.

| | | | | | | | | | | | | |
|--------------------------------------|---|-----|--|-------------|-------------------|--|--------------|-------------------|-------------|--|--|---|
| TPH (g) <input type="checkbox"/> GRO | TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44 | TPH | BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/> | VOCs (8260) | Oxygenates (8260) | Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core | SVOCs (8270) | Pesticides (8081) | PCBs (8082) | PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM | T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X | Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6 |
|--------------------------------------|---|-----|--|-------------|-------------------|--|--------------|-------------------|-------------|--|--|---|

| LAB USE ONLY | SAMPLE ID | SAMPLING | | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filtered |
|--------------|-----------|----------|------|--------|--------------|-------------|-----------|----------------|
| | | DATE | TIME | | | | | |
| | JC18 | 11/24/14 | 4PM | | | | | |

Relinquished by: (Signature) _____ Date: _____ Time: _____

Relinquished by: (Signature) _____ Date: _____ Time: _____

Relinquished by: (Signature) *J. Alex* Date: 11/28/14 Time: 0920

Received by: (Signature/Affiliation) _____ Date: _____ Time: _____

Received by: (Signature/Affiliation) _____ Date: _____ Time: _____

Received by: (Signature/Affiliation) *J. Alex* Date: 11/28/14 Time: 0920

From: (310) 848-5400
Jennifer deNicola

Origin ID: CIBA



22741 Pacific Coast Hwy, Suite
Malibu, CA 90265



J142214092303uv

Ship Date: 25NOV14
Act/Wgt: 1.0 LB
CAD: 107061989/INET3550

2196

Delivery Address Bar Code



SHIP TO: (714) 895-5494

BILL SENDER

Don Burley
Eurofins
7440 Lincoln Way

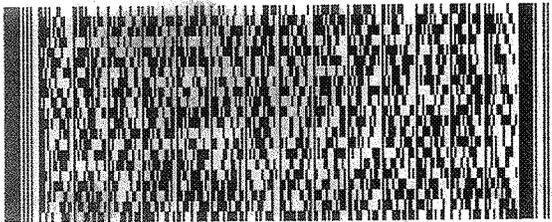
Ref # Test JC
Invoice #
PO #
Dept #

GARDEN GROVE, CA 92841

RELEASE#: 3785346

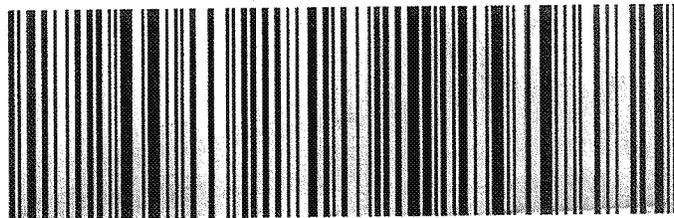
FRI - 28 NOV 10:30A
MORNING 2DAY

TRK# 7719 9433 8664
0201



92841
CA-US
SNA

SH APVA



522G1616C/8A09

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Calscience

WORK ORDER #: 14-11-2196

SAMPLE RECEIPT FORM

Envelope
Cooler 1 of 1
128114

CLIENT: Malibu Unites

DATE: 11/28/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 21.9 °C - 0.2°C (CF) = 21.7 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 836

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 836

Sample _____ No (Not Intact) Not Present Checked by: 300

SAMPLE CONDITION:

| | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input checked="" type="checkbox"/> Not relinquished. <input checked="" type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aqueous samples received within 15-minute holding time | | | |
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® Z

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 836

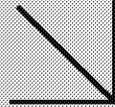
Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z: ZnAc₂+NaOH f: Filtered Scanned by: 300

Appendix A.12

**Third Party Reported Results
Eurofins Calscience Report Sample ID JC22
December 5, 2014**

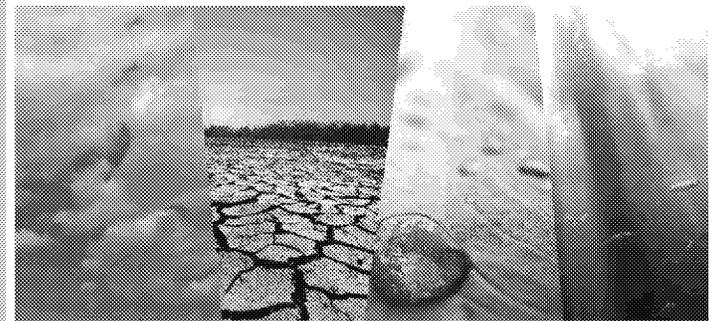


Calscience



WORK ORDER NUMBER: 14-11-2197

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Malibu Unites

Client Project Name: JC22

Attention: Jennifer deNicola
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Approved for release on 12/05/2014 by:
Don Burley
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: JC22
Work Order Number: 14-11-2197

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| 2 | Sample Summary. | 4 |
| 3 | Detections Summary. | 5 |
| 4 | Client Sample Data. | 6 |
| | 4.1 EPA 8082 PCB Aroclors (Solid). | 6 |
| 5 | Quality Control Sample Data. | 7 |
| | 5.1 LCS/LCSD. | 7 |
| 6 | Sample Analysis Summary. | 8 |
| 7 | Glossary of Terms and Qualifiers. | 9 |
| 8 | Chain-of-Custody/Sample Receipt Form. | 10 |

Work Order: 14-11-2197

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/28/14. They were assigned to Work Order 14-11-2197.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Sample Summary

| | |
|------------------------------------|------------------------------------|
| Client: Malibu Unites | Work Order: 14-11-2197 |
| 22741 Pacific Coast Hwy, Suite 401 | Project Name: JC22 |
| Malibu, CA 90265-5876 | PO Number: |
| | Date/Time Received: 11/28/14 09:20 |
| | Number of Containers: 1 |

Attn: Jennifer deNicola

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|--------------|--------------------------|----------------------|--------|
| JC22 | 14-11-2197-1 | 11/20/14 16:00 | 1 | Solid |

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Detections Summary

Client: Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Work Order: 14-11-2197
 Project Name: JC22
 Received: 11/28/14

Attn: Jennifer deNicola

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Client SampleID

| <u>Analyte</u> | <u>Result</u> | <u>Qualifiers</u> | <u>RL</u> | <u>Units</u> | <u>Method</u> | <u>Extraction</u> |
|-------------------------------------|---------------|-------------------|-----------|--------------|---------------|-------------------|
| JC22 (14-11-2197-1) Aroclor-1254 | 74000 | | 11000 | mg/kg | EPA 8082 | EPA 3550B |

Subcontracted analyses, if any, are not included in this summary.


 Return to Contents

* MDL is shown

Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 11/28/14
 Work Order: 14-11-2197
 Preparation: EPA 3550B
 Method: EPA 8082
 Units: mg/kg

Project: JC22

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| JC22 | 14-11-2197-1-A | 11/20/14 16:00 | Solid | GC 31 | 12/02/14 | 12/05/14 16:32 | 141202L06 |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|-------|------------|
| Aroclor-1016 | ND | 11000 | 50000 | |
| Aroclor-1221 | ND | 11000 | 50000 | |
| Aroclor-1232 | ND | 11000 | 50000 | |
| Aroclor-1242 | ND | 11000 | 50000 | |
| Aroclor-1248 | ND | 11000 | 50000 | |
| Aroclor-1254 | 74000 | 11000 | 50000 | |
| Aroclor-1260 | ND | 11000 | 50000 | |
| Aroclor-1262 | ND | 11000 | 50000 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 0 | 24-168 | 1,2,6 |
| 2,4,5,6-Tetrachloro-m-Xylene | 0 | 25-145 | 1,2,6 |

| Method Blank | 099-12-535-2968 | N/A | Solid | GC 58 | 12/02/14 | 12/05/14 10:53 | 141202L06 |
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|------|------------|
| Aroclor-1016 | ND | 0.050 | 1.00 | |
| Aroclor-1221 | ND | 0.050 | 1.00 | |
| Aroclor-1232 | ND | 0.050 | 1.00 | |
| Aroclor-1242 | ND | 0.050 | 1.00 | |
| Aroclor-1248 | ND | 0.050 | 1.00 | |
| Aroclor-1254 | ND | 0.050 | 1.00 | |
| Aroclor-1260 | ND | 0.050 | 1.00 | |
| Aroclor-1262 | ND | 0.050 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 87 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 84 | 25-145 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - LCS/LCSD

Malibu Unites
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Date Received: 11/28/14
Work Order: 14-11-2197
Preparation: EPA 3550B
Method: EPA 8082

Project: JC22

Page 1 of 1

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-12-535-2968 | LCS | Solid | GC 58 | 12/02/14 | 12/05/14 10:17 | 141202L06 | | | |
| 099-12-535-2968 | LCSD | Solid | GC 58 | 12/02/14 | 12/05/14 10:35 | 141202L06 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Aroclor-1016 | 0.1000 | 0.09831 | 98 | 0.09121 | 91 | 50-135 | 7 | 0-20 | |
| Aroclor-1260 | 0.1000 | 0.1011 | 101 | 0.09159 | 92 | 50-135 | 10 | 0-25 | |

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RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 14-11-2197

Page 1 of 1

| <u>Method</u> | <u>Extraction</u> | <u>Chemist ID</u> | <u>Instrument</u> | <u>Analytical Location</u> |
|---------------|-------------------|-------------------|-------------------|----------------------------|
| EPA 8082 | EPA 3550B | 669 | GC 31 | 1 |


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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

From: (310) 848-5400
Jennifer deNicola

Origin ID: CIBA



22741 Pacific Coast Hwy, Suite
Malibu, CA 90265



J142214092303uv

Ship Date: 25NOV14
ActWgt: 1.0 LB
CAD: 107061989/INET3550

2197

Delivery Address Bar Code



SHIP TO: (714) 895-5494

BILL SENDER

Don Burley
Eurofins
7440 Lincoln Way

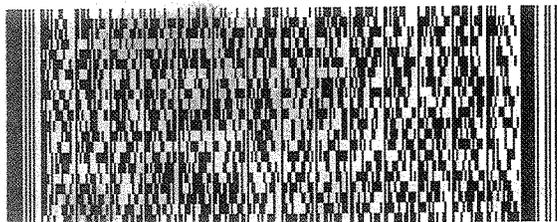
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Invoice #
PO #
Dept #

GARDEN GROVE, CA 92841

RELEASE#: 3785346

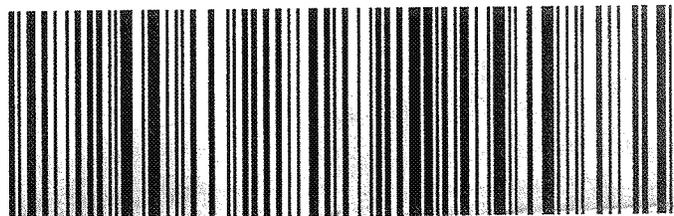
FRI - 28 NOV 10:30A
MORNING 2DAY

TRK# 7719 9433 8664
0201



92841
CA-US
SNA

SH APVA



522G1616C8AC9



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Calscience

WORK ORDER #: 14-11-2197

SAMPLE RECEIPT FORM

Envelope Cooler 1 of 1
#128114

CLIENT: Malibu Unites

DATE: 11/28/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 21.9°C - 0.2°C (CF) = 21.7°C [] Blank [x] Sample

- [] Sample(s) outside temperature criteria (PM/APM contacted by: _____)
- [] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
- [] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [] Air [] Filter

Checked by: 836

CUSTODY SEALS INTACT:

- [] Cooler [] _____ [] No (Not Intact) [x] Not Present [] N/A
- [] Sample [] _____ [] No (Not Intact) [x] Not Present

Checked by: 836

Checked by: 300

SAMPLE CONDITION:

| | Yes | No | N/A |
|--|-----|-----|-----|
| Chain-Of-Custody (COC) document(s) received with samples..... | [x] | [] | [] |
| COC document(s) received complete..... | [] | [x] | [] |
| [x] Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| [] No analysis requested. [x] Not relinquished. [x] No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | [] | [x] | [] |
| Sample container label(s) consistent with COC..... | [x] | [] | [] |
| Sample container(s) intact and good condition..... | [x] | [] | [] |
| Proper containers and sufficient volume for analyses requested..... | [] | [x] | [] |
| Analyses received within holding time..... | [x] | [] | [] |
| Aqueous samples received within 15-minute holding time | | | |
| [] pH [] Residual Chlorine [] Dissolved Sulfides [] Dissolved Oxygen..... | [] | [] | [x] |
| Proper preservation noted on COC or sample container..... | [] | [] | [x] |
| [] Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | [] | [] | [x] |
| Tedlar bag(s) free of condensation..... | [] | [] | [x] |

CONTAINER TYPE:

Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve (____) [] EnCores® [] TerraCores® [x] Z

Aqueous: [] VOA [] VOA_h [] VOA_{na2} [] 125AGB [] 125AGB_h [] 125AGB_p [] 1AGB [] 1AGB_{na2} [] 1AGB_s
[] 500AGB [] 500AGJ [] 500AGJ_s [] 250AGB [] 250CGB [] 250CGB_s [] 1PB [] 1PB_{na} [] 500PB
[] 250PB [] 250PB_n [] 125PB [] 125PB_{z_{na}} [] 100PJ [] 100PJ_{na2} [] _____ [] _____ [] _____

Air: [] Tedlar® [] Canister Other: [] _____ Trip Blank Lot#: _____ Labeled/Checked by: 300

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 836

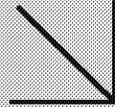
Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered Scanned by: 300

Appendix A.13

**Third Party Reported Results
Eurofins Calscience Report Sample ID JC23
December 5, 2014**

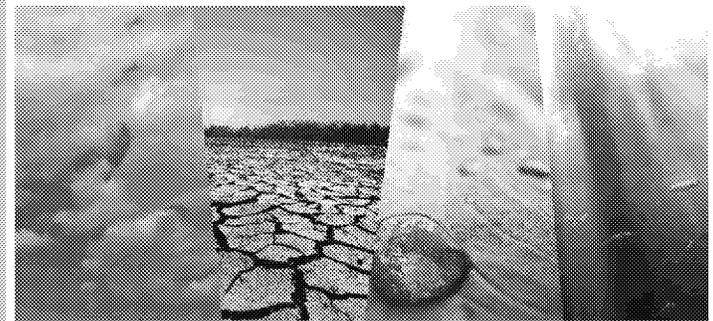


Calscience



WORK ORDER NUMBER: 14-11-2199

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Malibu Unites

Client Project Name: JC23

Attention: Jennifer deNicola
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Approved for release on 12/05/2014 by:
Don Burley
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: JC23
Work Order Number: 14-11-2199

| | | |
|---|---|----|
| 1 | Work Order Narrative. | 3 |
| 2 | Sample Summary. | 4 |
| 3 | Detections Summary. | 5 |
| 4 | Client Sample Data. | 6 |
| | 4.1 EPA 8082 PCB Aroclors (Solid). | 6 |
| 5 | Quality Control Sample Data. | 7 |
| | 5.1 LCS/LCSD. | 7 |
| 6 | Sample Analysis Summary. | 8 |
| 7 | Glossary of Terms and Qualifiers. | 9 |
| 8 | Chain-of-Custody/Sample Receipt Form. | 10 |

Work Order: 14-11-2199

Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/28/14. They were assigned to Work Order 14-11-2199.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Sample Summary

| | | |
|------------------------------------|-----------------------|----------------|
| Client: Malibu Unites | Work Order: | 14-11-2199 |
| 22741 Pacific Coast Hwy, Suite 401 | Project Name: | JC23 |
| Malibu, CA 90265-5876 | PO Number: | |
| | Date/Time Received: | 11/28/14 09:20 |
| | Number of Containers: | 1 |

Attn: Jennifer deNicola

| Sample Identification | Lab Number | Collection Date and Time | Number of Containers | Matrix |
|-----------------------|--------------|--------------------------|----------------------|--------|
| JC23 | 14-11-2199-1 | 11/20/14 16:00 | 1 | Solid |

Detections Summary

| | |
|------------------------------------|------------------------|
| Client: Malibu Unites | Work Order: 14-11-2199 |
| 22741 Pacific Coast Hwy, Suite 401 | Project Name: JC23 |
| Malibu, CA 90265-5876 | Received: 11/28/14 |

Attn: Jennifer deNicola

Page 1 of 1

Client SampleID

| <u>Analyte</u> | <u>Result</u> | <u>Qualifiers</u> | <u>RL</u> | <u>Units</u> | <u>Method</u> | <u>Extraction</u> |
|---------------------|---------------|-------------------|-----------|--------------|---------------|-------------------|
| JC23 (14-11-2199-1) | | | | | | |
| Aroclor-1254 | 85000 | | 17000 | mg/kg | EPA 8082 | EPA 3550B |

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

Analytical Report

Malibu Unites
 22741 Pacific Coast Hwy, Suite 401
 Malibu, CA 90265-5876

Date Received: 11/28/14
 Work Order: 14-11-2199
 Preparation: EPA 3550B
 Method: EPA 8082
 Units: mg/kg

Project: JC23

Page 1 of 1

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| JC23 | 14-11-2199-1-A | 11/20/14 16:00 | Solid | GC 31 | 12/02/14 | 12/05/14 16:51 | 141202L06 |

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|-------|------------|
| Aroclor-1016 | ND | 17000 | 50000 | |
| Aroclor-1221 | ND | 17000 | 50000 | |
| Aroclor-1232 | ND | 17000 | 50000 | |
| Aroclor-1242 | ND | 17000 | 50000 | |
| Aroclor-1248 | ND | 17000 | 50000 | |
| Aroclor-1254 | 85000 | 17000 | 50000 | |
| Aroclor-1260 | ND | 17000 | 50000 | |
| Aroclor-1262 | ND | 17000 | 50000 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 0 | 24-168 | 1,2,6 |
| 2,4,5,6-Tetrachloro-m-Xylene | 0 | 25-145 | 1,2,6 |

| Method Blank | 099-12-535-2968 | N/A | Solid | GC 58 | 12/02/14 | 12/05/14 10:53 | 141202L06 |
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|
|--------------|-----------------|-----|-------|-------|----------|-------------------|-----------|

| Parameter | Result | RL | DF | Qualifiers |
|--------------|--------|-------|------|------------|
| Aroclor-1016 | ND | 0.050 | 1.00 | |
| Aroclor-1221 | ND | 0.050 | 1.00 | |
| Aroclor-1232 | ND | 0.050 | 1.00 | |
| Aroclor-1242 | ND | 0.050 | 1.00 | |
| Aroclor-1248 | ND | 0.050 | 1.00 | |
| Aroclor-1254 | ND | 0.050 | 1.00 | |
| Aroclor-1260 | ND | 0.050 | 1.00 | |
| Aroclor-1262 | ND | 0.050 | 1.00 | |

| Surrogate | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| Decachlorobiphenyl | 87 | 24-168 | |
| 2,4,5,6-Tetrachloro-m-Xylene | 84 | 25-145 | |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Calscience

Quality Control - LCS/LCSD

Malibu Unites
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Date Received: 11/28/14
Work Order: 14-11-2199
Preparation: EPA 3550B
Method: EPA 8082

Project: JC23

Page 1 of 1

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|---------------------------|-------------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-12-535-2968 | LCS | Solid | GC 58 | 12/02/14 | 12/05/14 10:17 | 141202L06 | | | |
| 099-12-535-2968 | LCSD | Solid | GC 58 | 12/02/14 | 12/05/14 10:35 | 141202L06 | | | |
| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
| Aroclor-1016 | 0.1000 | 0.09831 | 98 | 0.09121 | 91 | 50-135 | 7 | 0-20 | |
| Aroclor-1260 | 0.1000 | 0.1011 | 101 | 0.09159 | 92 | 50-135 | 10 | 0-25 | |

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 14-11-2199

Page 1 of 1

| <u>Method</u> | <u>Extraction</u> | <u>Chemist ID</u> | <u>Instrument</u> | <u>Analytical Location</u> |
|---------------|-------------------|-------------------|-------------------|----------------------------|
| EPA 8082 | EPA 3550B | 669 | GC 31 | 1 |


Return to Contents

Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

| <u>Qualifiers</u> | <u>Definition</u> |
|-------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. |
| 4 | The MS/MSD RPD was out of control due to suspected matrix interference. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| JA | Analyte positively identified but quantitation is an estimate. |
| ME | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

CHAIN-OF-CUSTODY RECORD



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
 For courier service / sample drop off information, contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT:

ADDRESS: Malibu Unites
 22741 PCH #401
 CITY: Malibu STATE: CA ZIP: 90265
 TEL: 310.436.6000 E-MAIL: Jen@malibuunites.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

EDD: COELTEDF OTHER

SPECIAL INSTRUCTIONS:

VO NO. / LAB USE ONLY
14-11-2199

DATE: 11/28/14
 PAGE: 12 of 12

CLIENT PROJECT NAME / NO.: M201 JE23
 P.O. NO.:
 PROJECT CONTACT: JEN DE NICOLA
 LOG CODE:
 LAB CONTACT OR QUOTE NO.:
 SAMPLER(S) (PRINT):

REQUESTED ANALYSES

Please check box or fill in blank as needed.

| LAB USE ONLY | SAMPLE ID | SAMPLING | | MATRIX | NO. OF CONT. | Unpreserved | Preserved | Field Filled | TPH(g) <input type="checkbox"/> GRO | TPH(d) <input type="checkbox"/> DRO | TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44 | TPH | BTEX / MTBE <input type="checkbox"/> 8260 | VOCs (8260) | Oxygenates (8260) | Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core | SVOCs (8270) | Pesticides (8081) | PCBs (8082) | PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM | T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X | Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6 | Time: | |
|--|-----------|----------|------|--------|--------------|-------------|-----------|--------------|-------------------------------------|-------------------------------------|---|-----|---|-------------|-------------------|--|--------------|-------------------|-------------|--|--|---|-------|--|
| | | DATE | TIME | | | | | | | | | | | | | | | | | | | | | |
| | CAB #23 | 10/20/14 | 4PM | | | | | | | | | | | | | | | | | | | | | |
| | JC23 | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) _____ Date: _____ Time: _____ Relinquished by: (Signature) _____ Date: _____ Time: _____ Relinquished by: (Signature) _____ Date: 11/28/14 Time: 0920 | | | | | | | | | | | | | | | | | | | | | | | | |



From: (310) 848-5400
Jennifer deNicola

Origin ID: CIBA



Ship Date: 25NOV14
ActWgt: 1.0 LB
CAD: 107061989/INET3550

2199

22741 Pacific Coast Hwy, Suite
Malibu, CA 90265



J142214092303uv

Delivery Address Bar Code



SHIP TO: (714) 895-5494

BILL SENDER

Don Burley
Eurofins
7440 Lincoln Way

Ref # Test JC
Invoice #
PO #
Dept #

GARDEN GROVE, CA 92841

RELEASE#: 3785346

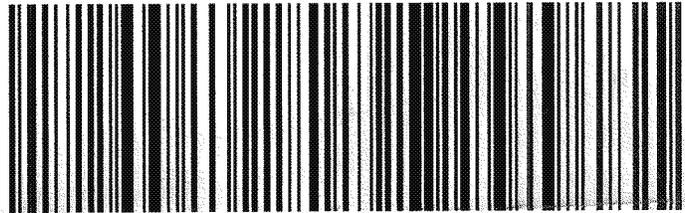
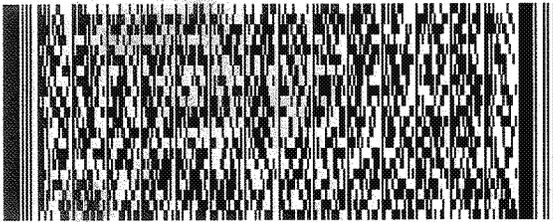
FRI - 28 NOV 10:30A
MORNING 2DAY

TRK# 7719 9433 8664

0201

92841
CA-US
SNA

SH APVA



522G16160/8AC9

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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Calscience

WORK ORDER #: 14-11-2199

SAMPLE RECEIPT FORM

Envelope Cooler 1 of 1

CLIENT: Malibu Unites

DATE: 11/28/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C - 6.0 °C, not frozen except sediment/tissue)
Temperature 21.9 °C - 0.2 °C (CF) = 21.7 °C
Sample(s) outside temperature criteria (PM/APM contacted by:)
Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter
Checked by: 836

CUSTODY SEALS INTACT:
Cooler No (Not Intact) Not Present N/A
Sample No (Not Intact) Not Present
Checked by: 836

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples...
COC document(s) received complete...
Collection date/time, matrix, and/or # of containers logged in based on sample labels.
No analysis requested. Not relinquished. No date/time relinquished.
Sampler's name indicated on COC...
Sample container label(s) consistent with COC...
Sample container(s) intact and good condition...
Proper containers and sufficient volume for analyses requested...
Analyses received within holding time...
Aqueous samples received within 15-minute holding time
pH Residual Chlorine Dissolved Sulfides Dissolved Oxygen...
Proper preservation noted on COC or sample container...
Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace...
Tedlar bag(s) free of condensation...

CONTAINER TYPE:
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve () EnCores TerraCores Z
Aqueous: VOA VOAh VOAna2 125AGB 125AGBh 125AGBp 1AGB 1AGBna2 1AGBs
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB
250PB 250PBn 125PB 125PBzanna 100PJ 100PJna2
Air: Tedlar Canister Other: Trip Blank Lot#: Labeled/Checked by:
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by:
Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zanna: ZnAc2+NaOH f: Filtered Scanned by:

Attachment B

**Laboratory Analytical Reports and Data Validation for ENVIRON's Bulk Sampling of
MHS and JCES**

Laboratory Report #1503051 (Bulk)

Sample Date: February 28, 2015
MHS and JCES



10-Mar-2015

Doug Daugherty
ENVIRON International Corp
18100 VonKarman Ave.
Suite 600
Irvine, CA 92612

Re: **MHS/JCES (0433980P)**

Work Order: **1503051**

Dear Doug,

Revision: **1**

ALS Environmental received 24 samples on 03-Mar-2015 08:15 AM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 38.

If you have any questions regarding these test results, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-6283 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.

ED_002022B_00026808-00182

Client: ENVIRON International Corp
 Project: MHS/JCES (0433980P)
 Work Order: 1503051

Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u> |
|--------------------|--------------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1503051-01 | 022815-JCES-BF-R18-L1-C1 | Solid | | 2/28/2015 08:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-02 | 022815-JCES-BF-R18-L1-C2 | Solid | | 2/28/2015 08:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-03 | 022815-JCES-BF-R18-L2-C1 | Solid | | 2/28/2015 08:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-04 | 022815-JCES-BF-R19-L1-C1 | Solid | | 2/28/2015 09:30 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-05 | 022815-JCES-BF-R19-L1-C2 | Solid | | 2/28/2015 09:30 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-06 | 022815-JCES-BF-R19-L2-C1 | Solid | | 2/28/2015 09:30 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-07 | 022815-JCES-BF-R23-L1-C1 | Solid | | 2/28/2015 11:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-08 | 022815-JCES-BF-R23-L1-C2 | Solid | | 2/28/2015 11:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-09 | 022815-JCES-BF-R23-L2-C1 | Solid | | 2/28/2015 11:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-10 | 022815-JCES-BF-R23-L3-C1 | Solid | | 2/28/2015 11:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-11 | 022815-JCES-BF-R22-L6-C1 | Solid | | 2/28/2015 12:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-12 | 022815-JCES-BF-R22-L6-C2 | Solid | | 2/28/2015 12:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-13 | 022815-JCES-BF-R22-L7-C1 | Solid | | 2/28/2015 12:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-14 | 022815-JCES-BF-R22-L7-C2 | Solid | | 2/28/2015 12:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-15 | 022815-MHS-B000-R7-L1-C1 | Solid | | 2/28/2015 13:15 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-16 | 022815-MHS-B000-R7-L2-C1 | Solid | | 2/28/2015 13:15 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-17 | 022815-MHS-B000-R3-L4-C1 | Solid | | 2/28/2015 14:30 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-18 | 022815-MHS-B000-R3-L10-C1 | Solid | | 2/28/2015 14:30 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-19 | 022815-MHS-B400-R401-L1-C1 | Solid | | 2/28/2015 15:15 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-20 | 022815-MHS-B500-R505-L1-C1 | Solid | | 2/28/2015 16:00 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-21 | 022815-MHS-B700-R704Hall-L1-C1 | Solid | | 2/28/2015 16:45 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-22 | 022815-MHS-B700-R704-L5-C1 | Solid | | 2/28/2015 17:30 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-23 | 022815-MHS-B700-R704-L5-C2 | Solid | | 2/28/2015 18:20 | 3/3/2015 08:15 | <input type="checkbox"/> |
| 1503051-24 | 022815-MHS-B700-R704-L2-C1 | Solid | | 2/28/2015 18:20 | 3/3/2015 08:15 | <input type="checkbox"/> |

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Work Order: 1503051

Case Narrative

All surrogate recoveries in the samples are unavailable due to dilution below the calibration range. The matrix spikes are also unavailable due to dilution below the calibration range.

The concentrations in the Method Blanks were greater than the quantitation limit for Aroclor 1254. The sample concentrations were greater than 5x the concentrations in the Method Blanks; therefore, no qualification is required.

Revised report sent 3/10/15 due to a client requested unit conversion from ug/Kg to mg/Kg.

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
WorkOrder: 1503051

**QUALIFIERS,
ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u> |
|------------------|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte is present at an estimated concentration between the MDL and Report Limit |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| X | Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level. |

| <u>Acronym</u> | <u>Description</u> |
|----------------|-------------------------------------|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| TNTC | Too Numerous To Count |
| A | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| SW | SW-846 Update III |

| <u>Units Reported</u> | <u>Description</u> |
|-----------------------|------------------------------------|
| % of sample | Percent of Sample |
| mg/Kg | Milligrams per Kilogram |
| mg/Kg-dry | Milligrams per Kilogram Dry Weight |

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R18-L1-C1
Collection Date: 2/28/2015 08:00 AM

Work Order: 1503051
Lab ID: 1503051-01
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 4,700 | mg/Kg | 1E+05 | 3/6/2015 08:22 PM |
| Aroclor 1221 | ND | | 4,700 | mg/Kg | 1E+05 | 3/6/2015 08:22 PM |
| Aroclor 1232 | ND | | 4,700 | mg/Kg | 1E+05 | 3/6/2015 08:22 PM |
| Aroclor 1242 | ND | | 4,700 | mg/Kg | 1E+05 | 3/6/2015 08:22 PM |
| Aroclor 1248 | ND | | 4,700 | mg/Kg | 1E+05 | 3/6/2015 08:22 PM |
| Aroclor 1254 | 290,000 | B | 4,700 | mg/Kg | 1E+05 | 3/6/2015 08:22 PM |
| Aroclor 1260 | ND | | 4,700 | mg/Kg | 1E+05 | 3/6/2015 08:22 PM |
| Aroclor 1262 | ND | | 4,700 | mg/Kg | 1E+05 | 3/6/2015 08:22 PM |
| Aroclor 1268 | ND | | 4,700 | mg/Kg | 1E+05 | 3/6/2015 08:22 PM |
| PCBs, Total | 290,000 | | | mg/Kg | 1E+05 | 3/6/2015 08:22 PM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 08:22 PM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 08:22 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R18-L1-C2
Collection Date: 2/28/2015 08:00 AM

Work Order: 1503051
Lab ID: 1503051-02
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 4,800 | mg/Kg | 1E+05 | 3/6/2015 08:39 PM |
| Aroclor 1221 | ND | | 4,800 | mg/Kg | 1E+05 | 3/6/2015 08:39 PM |
| Aroclor 1232 | ND | | 4,800 | mg/Kg | 1E+05 | 3/6/2015 08:39 PM |
| Aroclor 1242 | ND | | 4,800 | mg/Kg | 1E+05 | 3/6/2015 08:39 PM |
| Aroclor 1248 | ND | | 4,800 | mg/Kg | 1E+05 | 3/6/2015 08:39 PM |
| Aroclor 1254 | 270,000 | B | 4,800 | mg/Kg | 1E+05 | 3/6/2015 08:39 PM |
| Aroclor 1260 | ND | | 4,800 | mg/Kg | 1E+05 | 3/6/2015 08:39 PM |
| Aroclor 1262 | ND | | 4,800 | mg/Kg | 1E+05 | 3/6/2015 08:39 PM |
| Aroclor 1268 | ND | | 4,800 | mg/Kg | 1E+05 | 3/6/2015 08:39 PM |
| PCBs, Total | 270,000 | | | mg/Kg | 1E+05 | 3/6/2015 08:39 PM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 08:39 PM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 08:39 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R18-L2-C1
Collection Date: 2/28/2015 08:00 AM

Work Order: 1503051
Lab ID: 1503051-03
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 3,000 | mg/Kg | 1E+05 | 3/6/2015 08:56 PM |
| Aroclor 1221 | ND | | 3,000 | mg/Kg | 1E+05 | 3/6/2015 08:56 PM |
| Aroclor 1232 | ND | | 3,000 | mg/Kg | 1E+05 | 3/6/2015 08:56 PM |
| Aroclor 1242 | ND | | 3,000 | mg/Kg | 1E+05 | 3/6/2015 08:56 PM |
| Aroclor 1248 | ND | | 3,000 | mg/Kg | 1E+05 | 3/6/2015 08:56 PM |
| Aroclor 1254 | 230,000 | B | 3,000 | mg/Kg | 1E+05 | 3/6/2015 08:56 PM |
| Aroclor 1260 | ND | | 3,000 | mg/Kg | 1E+05 | 3/6/2015 08:56 PM |
| Aroclor 1262 | ND | | 3,000 | mg/Kg | 1E+05 | 3/6/2015 08:56 PM |
| Aroclor 1268 | ND | | 3,000 | mg/Kg | 1E+05 | 3/6/2015 08:56 PM |
| PCBs, Total | 230,000 | | | mg/Kg | 1E+05 | 3/6/2015 08:56 PM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 08:56 PM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 08:56 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R19-L1-C1
Collection Date: 2/28/2015 09:30 AM

Work Order: 1503051
Lab ID: 1503051-04
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 09:13 PM |
| Aroclor 1221 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 09:13 PM |
| Aroclor 1232 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 09:13 PM |
| Aroclor 1242 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 09:13 PM |
| Aroclor 1248 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 09:13 PM |
| Aroclor 1254 | 390,000 | B | 3,200 | mg/Kg | 1E+05 | 3/6/2015 09:13 PM |
| Aroclor 1260 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 09:13 PM |
| Aroclor 1262 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 09:13 PM |
| Aroclor 1268 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 09:13 PM |
| PCBs, Total | 390,000 | | | mg/Kg | 1E+05 | 3/6/2015 09:13 PM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 09:13 PM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 09:13 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R19-L1-C2
Collection Date: 2/28/2015 09:30 AM

Work Order: 1503051
Lab ID: 1503051-05
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|----------------|------|----------------|------------------|------------------------|---------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 3,300 | mg/Kg-dry | 1E+05 | 3/6/2015 09:30 PM |
| Aroclor 1221 | ND | | 3,300 | mg/Kg-dry | 1E+05 | 3/6/2015 09:30 PM |
| Aroclor 1232 | ND | | 3,300 | mg/Kg-dry | 1E+05 | 3/6/2015 09:30 PM |
| Aroclor 1242 | ND | | 3,300 | mg/Kg-dry | 1E+05 | 3/6/2015 09:30 PM |
| Aroclor 1248 | ND | | 3,300 | mg/Kg-dry | 1E+05 | 3/6/2015 09:30 PM |
| Aroclor 1254 | 570,000 | B | 3,300 | mg/Kg-dry | 1E+05 | 3/6/2015 09:30 PM |
| Aroclor 1260 | ND | | 3,300 | mg/Kg-dry | 1E+05 | 3/6/2015 09:30 PM |
| Aroclor 1262 | ND | | 3,300 | mg/Kg-dry | 1E+05 | 3/6/2015 09:30 PM |
| Aroclor 1268 | ND | | 3,300 | mg/Kg-dry | 1E+05 | 3/6/2015 09:30 PM |
| PCBs, Total | 570,000 | | | mg/Kg-dry | 1E+05 | 3/6/2015 09:30 PM |
| <i>Surr: Decachlorobiphenyl</i> | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 09:30 PM |
| <i>Surr: Tetrachloro-m-xylene</i> | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 09:30 PM |
| MOISTURE | | | E160.3M | | | Analyst: EVB |
| Moisture | 2.1 | | 0.050 | % of sample | 1 | 3/4/2015 02:30 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R19-L2-C1
Collection Date: 2/28/2015 09:30 AM

Work Order: 1503051
Lab ID: 1503051-06
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|----------------|------|----------------|------------------|------------------------|---------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 2,900 | mg/Kg-dry | 1E+05 | 3/6/2015 09:47 PM |
| Aroclor 1221 | ND | | 2,900 | mg/Kg-dry | 1E+05 | 3/6/2015 09:47 PM |
| Aroclor 1232 | ND | | 2,900 | mg/Kg-dry | 1E+05 | 3/6/2015 09:47 PM |
| Aroclor 1242 | ND | | 2,900 | mg/Kg-dry | 1E+05 | 3/6/2015 09:47 PM |
| Aroclor 1248 | ND | | 2,900 | mg/Kg-dry | 1E+05 | 3/6/2015 09:47 PM |
| Aroclor 1254 | 560,000 | B | 2,900 | mg/Kg-dry | 1E+05 | 3/6/2015 09:47 PM |
| Aroclor 1260 | ND | | 2,900 | mg/Kg-dry | 1E+05 | 3/6/2015 09:47 PM |
| Aroclor 1262 | ND | | 2,900 | mg/Kg-dry | 1E+05 | 3/6/2015 09:47 PM |
| Aroclor 1268 | ND | | 2,900 | mg/Kg-dry | 1E+05 | 3/6/2015 09:47 PM |
| PCBs, Total | 560,000 | | | mg/Kg-dry | 1E+05 | 3/6/2015 09:47 PM |
| <i>Surr: Decachlorobiphenyl</i> | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 09:47 PM |
| <i>Surr: Tetrachloro-m-xylene</i> | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 09:47 PM |
| MOISTURE | | | E160.3M | | | Analyst: EVB |
| Moisture | 1.8 | | 0.050 | % of sample | 1 | 3/4/2015 02:30 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R23-L1-C1
Collection Date: 2/28/2015 11:00 AM

Work Order: 1503051
Lab ID: 1503051-07
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|----------------|------|----------------|------------------|------------------------|---------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 3,400 | mg/Kg-dry | 1E+05 | 3/6/2015 10:03 PM |
| Aroclor 1221 | ND | | 3,400 | mg/Kg-dry | 1E+05 | 3/6/2015 10:03 PM |
| Aroclor 1232 | ND | | 3,400 | mg/Kg-dry | 1E+05 | 3/6/2015 10:03 PM |
| Aroclor 1242 | ND | | 3,400 | mg/Kg-dry | 1E+05 | 3/6/2015 10:03 PM |
| Aroclor 1248 | ND | | 3,400 | mg/Kg-dry | 1E+05 | 3/6/2015 10:03 PM |
| Aroclor 1254 | 350,000 | B | 3,400 | mg/Kg-dry | 1E+05 | 3/6/2015 10:03 PM |
| Aroclor 1260 | ND | | 3,400 | mg/Kg-dry | 1E+05 | 3/6/2015 10:03 PM |
| Aroclor 1262 | ND | | 3,400 | mg/Kg-dry | 1E+05 | 3/6/2015 10:03 PM |
| Aroclor 1268 | ND | | 3,400 | mg/Kg-dry | 1E+05 | 3/6/2015 10:03 PM |
| PCBs, Total | 350,000 | | | mg/Kg-dry | 1E+05 | 3/6/2015 10:03 PM |
| <i>Surr: Decachlorobiphenyl</i> | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 10:03 PM |
| <i>Surr: Tetrachloro-m-xylene</i> | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 10:03 PM |
| MOISTURE | | | E160.3M | | | Analyst: EVB |
| Moisture | 2.6 | | 0.050 | % of sample | 1 | 3/4/2015 02:30 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R23-L1-C2
Collection Date: 2/28/2015 11:00 AM

Work Order: 1503051
Lab ID: 1503051-08
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 8,300 | mg/Kg | 1E+05 | 3/6/2015 10:20 PM |
| Aroclor 1221 | ND | | 8,300 | mg/Kg | 1E+05 | 3/6/2015 10:20 PM |
| Aroclor 1232 | ND | | 8,300 | mg/Kg | 1E+05 | 3/6/2015 10:20 PM |
| Aroclor 1242 | ND | | 8,300 | mg/Kg | 1E+05 | 3/6/2015 10:20 PM |
| Aroclor 1248 | ND | | 8,300 | mg/Kg | 1E+05 | 3/6/2015 10:20 PM |
| Aroclor 1254 | 440,000 | B | 8,300 | mg/Kg | 1E+05 | 3/6/2015 10:20 PM |
| Aroclor 1260 | ND | | 8,300 | mg/Kg | 1E+05 | 3/6/2015 10:20 PM |
| Aroclor 1262 | ND | | 8,300 | mg/Kg | 1E+05 | 3/6/2015 10:20 PM |
| Aroclor 1268 | ND | | 8,300 | mg/Kg | 1E+05 | 3/6/2015 10:20 PM |
| PCBs, Total | 440,000 | | | mg/Kg | 1E+05 | 3/6/2015 10:20 PM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 10:20 PM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 10:20 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R23-L2-C1
Collection Date: 2/28/2015 11:00 AM

Work Order: 1503051
Lab ID: 1503051-09
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 11:11 PM |
| Aroclor 1221 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 11:11 PM |
| Aroclor 1232 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 11:11 PM |
| Aroclor 1242 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 11:11 PM |
| Aroclor 1248 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 11:11 PM |
| Aroclor 1254 | 280,000 | B | 3,200 | mg/Kg | 1E+05 | 3/6/2015 11:11 PM |
| Aroclor 1260 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 11:11 PM |
| Aroclor 1262 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 11:11 PM |
| Aroclor 1268 | ND | | 3,200 | mg/Kg | 1E+05 | 3/6/2015 11:11 PM |
| PCBs, Total | 280,000 | | | mg/Kg | 1E+05 | 3/6/2015 11:11 PM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 11:11 PM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 11:11 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R23-L3-C1
Collection Date: 2/28/2015 11:00 AM

Work Order: 1503051
Lab ID: 1503051-10
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 3,800 | mg/Kg | 1E+05 | 3/6/2015 11:27 PM |
| Aroclor 1221 | ND | | 3,800 | mg/Kg | 1E+05 | 3/6/2015 11:27 PM |
| Aroclor 1232 | ND | | 3,800 | mg/Kg | 1E+05 | 3/6/2015 11:27 PM |
| Aroclor 1242 | ND | | 3,800 | mg/Kg | 1E+05 | 3/6/2015 11:27 PM |
| Aroclor 1248 | ND | | 3,800 | mg/Kg | 1E+05 | 3/6/2015 11:27 PM |
| Aroclor 1254 | 180,000 | B | 3,800 | mg/Kg | 1E+05 | 3/6/2015 11:27 PM |
| Aroclor 1260 | ND | | 3,800 | mg/Kg | 1E+05 | 3/6/2015 11:27 PM |
| Aroclor 1262 | ND | | 3,800 | mg/Kg | 1E+05 | 3/6/2015 11:27 PM |
| Aroclor 1268 | ND | | 3,800 | mg/Kg | 1E+05 | 3/6/2015 11:27 PM |
| PCBs, Total | 180,000 | | | mg/Kg | 1E+05 | 3/6/2015 11:27 PM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 11:27 PM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 11:27 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R22-L6-C1
Collection Date: 2/28/2015 12:00 PM

Work Order: 1503051
Lab ID: 1503051-11
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 2,700 | mg/Kg | 1E+05 | 3/6/2015 11:44 PM |
| Aroclor 1221 | ND | | 2,700 | mg/Kg | 1E+05 | 3/6/2015 11:44 PM |
| Aroclor 1232 | ND | | 2,700 | mg/Kg | 1E+05 | 3/6/2015 11:44 PM |
| Aroclor 1242 | ND | | 2,700 | mg/Kg | 1E+05 | 3/6/2015 11:44 PM |
| Aroclor 1248 | ND | | 2,700 | mg/Kg | 1E+05 | 3/6/2015 11:44 PM |
| Aroclor 1254 | 280,000 | B | 2,700 | mg/Kg | 1E+05 | 3/6/2015 11:44 PM |
| Aroclor 1260 | ND | | 2,700 | mg/Kg | 1E+05 | 3/6/2015 11:44 PM |
| Aroclor 1262 | ND | | 2,700 | mg/Kg | 1E+05 | 3/6/2015 11:44 PM |
| Aroclor 1268 | ND | | 2,700 | mg/Kg | 1E+05 | 3/6/2015 11:44 PM |
| PCBs, Total | 280,000 | | | mg/Kg | 1E+05 | 3/6/2015 11:44 PM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/6/2015 11:44 PM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/6/2015 11:44 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R22-L6-C2
Collection Date: 2/28/2015 12:00 PM

Work Order: 1503051
Lab ID: 1503051-12
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 3,100 | mg/Kg | 1E+05 | 3/7/2015 12:01 AM |
| Aroclor 1221 | ND | | 3,100 | mg/Kg | 1E+05 | 3/7/2015 12:01 AM |
| Aroclor 1232 | ND | | 3,100 | mg/Kg | 1E+05 | 3/7/2015 12:01 AM |
| Aroclor 1242 | ND | | 3,100 | mg/Kg | 1E+05 | 3/7/2015 12:01 AM |
| Aroclor 1248 | ND | | 3,100 | mg/Kg | 1E+05 | 3/7/2015 12:01 AM |
| Aroclor 1254 | 470,000 | B | 3,100 | mg/Kg | 1E+05 | 3/7/2015 12:01 AM |
| Aroclor 1260 | ND | | 3,100 | mg/Kg | 1E+05 | 3/7/2015 12:01 AM |
| Aroclor 1262 | ND | | 3,100 | mg/Kg | 1E+05 | 3/7/2015 12:01 AM |
| Aroclor 1268 | ND | | 3,100 | mg/Kg | 1E+05 | 3/7/2015 12:01 AM |
| PCBs, Total | 470,000 | | | mg/Kg | 1E+05 | 3/7/2015 12:01 AM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/7/2015 12:01 AM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/7/2015 12:01 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R22-L7-C1
Collection Date: 2/28/2015 12:00 PM

Work Order: 1503051
Lab ID: 1503051-13
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 7,700 | mg/Kg | 1E+05 | 3/7/2015 12:18 AM |
| Aroclor 1221 | ND | | 7,700 | mg/Kg | 1E+05 | 3/7/2015 12:18 AM |
| Aroclor 1232 | ND | | 7,700 | mg/Kg | 1E+05 | 3/7/2015 12:18 AM |
| Aroclor 1242 | ND | | 7,700 | mg/Kg | 1E+05 | 3/7/2015 12:18 AM |
| Aroclor 1248 | ND | | 7,700 | mg/Kg | 1E+05 | 3/7/2015 12:18 AM |
| Aroclor 1254 | 220,000 | B | 7,700 | mg/Kg | 1E+05 | 3/7/2015 12:18 AM |
| Aroclor 1260 | ND | | 7,700 | mg/Kg | 1E+05 | 3/7/2015 12:18 AM |
| Aroclor 1262 | ND | | 7,700 | mg/Kg | 1E+05 | 3/7/2015 12:18 AM |
| Aroclor 1268 | ND | | 7,700 | mg/Kg | 1E+05 | 3/7/2015 12:18 AM |
| PCBs, Total | 220,000 | | | mg/Kg | 1E+05 | 3/7/2015 12:18 AM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/7/2015 12:18 AM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/7/2015 12:18 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-JCES-BF-R22-L7-C2
Collection Date: 2/28/2015 12:00 PM

Work Order: 1503051
Lab ID: 1503051-14
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 2,800 | mg/Kg | 1E+05 | 3/7/2015 12:35 AM |
| Aroclor 1221 | ND | | 2,800 | mg/Kg | 1E+05 | 3/7/2015 12:35 AM |
| Aroclor 1232 | ND | | 2,800 | mg/Kg | 1E+05 | 3/7/2015 12:35 AM |
| Aroclor 1242 | ND | | 2,800 | mg/Kg | 1E+05 | 3/7/2015 12:35 AM |
| Aroclor 1248 | ND | | 2,800 | mg/Kg | 1E+05 | 3/7/2015 12:35 AM |
| Aroclor 1254 | 130,000 | B | 2,800 | mg/Kg | 1E+05 | 3/7/2015 12:35 AM |
| Aroclor 1260 | ND | | 2,800 | mg/Kg | 1E+05 | 3/7/2015 12:35 AM |
| Aroclor 1262 | ND | | 2,800 | mg/Kg | 1E+05 | 3/7/2015 12:35 AM |
| Aroclor 1268 | ND | | 2,800 | mg/Kg | 1E+05 | 3/7/2015 12:35 AM |
| PCBs, Total | 130,000 | | | mg/Kg | 1E+05 | 3/7/2015 12:35 AM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/7/2015 12:35 AM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/7/2015 12:35 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-MHS-B000-R7-L1-C1
Collection Date: 2/28/2015 01:15 PM

Work Order: 1503051
Lab ID: 1503051-15
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 29 | mg/Kg | 1000 | 3/6/2015 04:57 PM |
| Aroclor 1221 | ND | | 29 | mg/Kg | 1000 | 3/6/2015 04:57 PM |
| Aroclor 1232 | ND | | 29 | mg/Kg | 1000 | 3/6/2015 04:57 PM |
| Aroclor 1242 | ND | | 29 | mg/Kg | 1000 | 3/6/2015 04:57 PM |
| Aroclor 1248 | ND | | 29 | mg/Kg | 1000 | 3/6/2015 04:57 PM |
| Aroclor 1254 | 330 | B | 29 | mg/Kg | 1000 | 3/6/2015 04:57 PM |
| Aroclor 1260 | ND | | 29 | mg/Kg | 1000 | 3/6/2015 04:57 PM |
| Aroclor 1262 | ND | | 29 | mg/Kg | 1000 | 3/6/2015 04:57 PM |
| Aroclor 1268 | ND | | 29 | mg/Kg | 1000 | 3/6/2015 04:57 PM |
| PCBs, Total | 330 | | | mg/Kg | 1000 | 3/6/2015 04:57 PM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1000 | 3/6/2015 04:57 PM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1000 | 3/6/2015 04:57 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-MHS-B000-R7-L2-C1
Collection Date: 2/28/2015 01:15 PM

Work Order: 1503051
Lab ID: 1503051-16
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|--------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 150 | mg/Kg | 5000 | 3/9/2015 09:13 AM |
| Aroclor 1221 | ND | | 150 | mg/Kg | 5000 | 3/9/2015 09:13 AM |
| Aroclor 1232 | ND | | 150 | mg/Kg | 5000 | 3/9/2015 09:13 AM |
| Aroclor 1242 | ND | | 150 | mg/Kg | 5000 | 3/9/2015 09:13 AM |
| Aroclor 1248 | ND | | 150 | mg/Kg | 5000 | 3/9/2015 09:13 AM |
| Aroclor 1254 | 1,800 | B | 150 | mg/Kg | 5000 | 3/9/2015 09:13 AM |
| Aroclor 1260 | ND | | 150 | mg/Kg | 5000 | 3/9/2015 09:13 AM |
| Aroclor 1262 | ND | | 150 | mg/Kg | 5000 | 3/9/2015 09:13 AM |
| Aroclor 1268 | ND | | 150 | mg/Kg | 5000 | 3/9/2015 09:13 AM |
| PCBs, Total | 1,800 | | | mg/Kg | 5000 | 3/9/2015 09:13 AM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 5000 | 3/9/2015 09:13 AM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 5000 | 3/9/2015 09:13 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-MHS-B000-R3-L4-C1
Collection Date: 2/28/2015 02:30 PM

Work Order: 1503051
Lab ID: 1503051-17
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------------|------|----------------|------------------|------------------------|---------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/5/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 140 | mg/Kg-dry | 5000 | 3/9/2015 10:54 AM |
| Aroclor 1221 | ND | | 140 | mg/Kg-dry | 5000 | 3/9/2015 10:54 AM |
| Aroclor 1232 | ND | | 140 | mg/Kg-dry | 5000 | 3/9/2015 10:54 AM |
| Aroclor 1242 | ND | | 140 | mg/Kg-dry | 5000 | 3/9/2015 10:54 AM |
| Aroclor 1248 | ND | | 140 | mg/Kg-dry | 5000 | 3/9/2015 10:54 AM |
| Aroclor 1254 | 1,600 | B | 140 | mg/Kg-dry | 5000 | 3/9/2015 10:54 AM |
| Aroclor 1260 | ND | | 140 | mg/Kg-dry | 5000 | 3/9/2015 10:54 AM |
| Aroclor 1262 | ND | | 140 | mg/Kg-dry | 5000 | 3/9/2015 10:54 AM |
| Aroclor 1268 | ND | | 140 | mg/Kg-dry | 5000 | 3/9/2015 10:54 AM |
| PCBs, Total | 1,600 | | | mg/Kg-dry | 5000 | 3/9/2015 10:54 AM |
| <i>Surr: Decachlorobiphenyl</i> | 0 | S | 40-140 | %REC | 5000 | 3/9/2015 10:54 AM |
| <i>Surr: Tetrachloro-m-xylene</i> | 0 | S | 45-124 | %REC | 5000 | 3/9/2015 10:54 AM |
| MOISTURE | | | E160.3M | | | Analyst: EVB |
| Moisture | 0.090 | | 0.050 | % of sample | 1 | 3/5/2015 10:20 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp
Project: MHS/JCES (0433980P)
Sample ID: 022815-MHS-B000-R3-L10-C1
Collection Date: 2/28/2015 02:30 PM

Work Order: 1503051
Lab ID: 1503051-18
Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------------|------|----------------|------------------|------------------------|---------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/5/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 160 | mg/Kg-dry | 5000 | 3/9/2015 10:37 AM |
| Aroclor 1221 | ND | | 160 | mg/Kg-dry | 5000 | 3/9/2015 10:37 AM |
| Aroclor 1232 | ND | | 160 | mg/Kg-dry | 5000 | 3/9/2015 10:37 AM |
| Aroclor 1242 | ND | | 160 | mg/Kg-dry | 5000 | 3/9/2015 10:37 AM |
| Aroclor 1248 | ND | | 160 | mg/Kg-dry | 5000 | 3/9/2015 10:37 AM |
| Aroclor 1254 | 1,800 | B | 160 | mg/Kg-dry | 5000 | 3/9/2015 10:37 AM |
| Aroclor 1260 | ND | | 160 | mg/Kg-dry | 5000 | 3/9/2015 10:37 AM |
| Aroclor 1262 | ND | | 160 | mg/Kg-dry | 5000 | 3/9/2015 10:37 AM |
| Aroclor 1268 | ND | | 160 | mg/Kg-dry | 5000 | 3/9/2015 10:37 AM |
| PCBs, Total | 1,800 | | | mg/Kg-dry | 5000 | 3/9/2015 10:37 AM |
| <i>Surr: Decachlorobiphenyl</i> | 0 | S | 40-140 | %REC | 5000 | 3/9/2015 10:37 AM |
| <i>Surr: Tetrachloro-m-xylene</i> | 0 | S | 45-124 | %REC | 5000 | 3/9/2015 10:37 AM |
| MOISTURE | | | E160.3M | | | Analyst: EVB |
| Moisture | 0.090 | | 0.050 | % of sample | 1 | 3/5/2015 10:20 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp

Project: MHS/JCES (0433980P)

Work Order: 1503051

Sample ID: 022815-MHS-B400-R401-L1-C1

Lab ID: 1503051-19

Collection Date: 2/28/2015 03:15 PM

Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|----------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/5/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 3,000 | mg/Kg | 1E+05 | 3/7/2015 02:33 AM |
| Aroclor 1221 | ND | | 3,000 | mg/Kg | 1E+05 | 3/7/2015 02:33 AM |
| Aroclor 1232 | ND | | 3,000 | mg/Kg | 1E+05 | 3/7/2015 02:33 AM |
| Aroclor 1242 | ND | | 3,000 | mg/Kg | 1E+05 | 3/7/2015 02:33 AM |
| Aroclor 1248 | ND | | 3,000 | mg/Kg | 1E+05 | 3/7/2015 02:33 AM |
| Aroclor 1254 | 190,000 | B | 3,000 | mg/Kg | 1E+05 | 3/7/2015 02:33 AM |
| Aroclor 1260 | ND | | 3,000 | mg/Kg | 1E+05 | 3/7/2015 02:33 AM |
| Aroclor 1262 | ND | | 3,000 | mg/Kg | 1E+05 | 3/7/2015 02:33 AM |
| Aroclor 1268 | ND | | 3,000 | mg/Kg | 1E+05 | 3/7/2015 02:33 AM |
| PCBs, Total | 190,000 | | | mg/Kg | 1E+05 | 3/7/2015 02:33 AM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 1E+05 | 3/7/2015 02:33 AM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 1E+05 | 3/7/2015 02:33 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

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ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp

Project: MHS/JCES (0433980P)

Work Order: 1503051

Sample ID: 022815-MHS-B500-R505-L1-C1

Lab ID: 1503051-20

Collection Date: 2/28/2015 04:00 PM

Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|----------------|------|----------------|------------------|------------------------|---------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/5/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 3,100 | mg/Kg-dry | 1E+05 | 3/7/2015 02:16 AM |
| Aroclor 1221 | ND | | 3,100 | mg/Kg-dry | 1E+05 | 3/7/2015 02:16 AM |
| Aroclor 1232 | ND | | 3,100 | mg/Kg-dry | 1E+05 | 3/7/2015 02:16 AM |
| Aroclor 1242 | ND | | 3,100 | mg/Kg-dry | 1E+05 | 3/7/2015 02:16 AM |
| Aroclor 1248 | ND | | 3,100 | mg/Kg-dry | 1E+05 | 3/7/2015 02:16 AM |
| Aroclor 1254 | 220,000 | B | 3,100 | mg/Kg-dry | 1E+05 | 3/7/2015 02:16 AM |
| Aroclor 1260 | ND | | 3,100 | mg/Kg-dry | 1E+05 | 3/7/2015 02:16 AM |
| Aroclor 1262 | ND | | 3,100 | mg/Kg-dry | 1E+05 | 3/7/2015 02:16 AM |
| Aroclor 1268 | ND | | 3,100 | mg/Kg-dry | 1E+05 | 3/7/2015 02:16 AM |
| PCBs, Total | 220,000 | | | mg/Kg-dry | 1E+05 | 3/7/2015 02:16 AM |
| <i>Surr: Decachlorobiphenyl</i> | 0 | S | 40-140 | %REC | 1E+05 | 3/7/2015 02:16 AM |
| <i>Surr: Tetrachloro-m-xylene</i> | 0 | S | 45-124 | %REC | 1E+05 | 3/7/2015 02:16 AM |
| MOISTURE | | | E160.3M | | | Analyst: EVB |
| Moisture | 0.79 | | 0.050 | % of sample | 1 | 3/5/2015 10:20 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp

Project: MHS/JCES (0433980P)

Work Order: 1503051

Sample ID: 022815-MHS-B700-R704Hall-L1-C1

Lab ID: 1503051-21

Collection Date: 2/28/2015 04:45 PM

Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|--------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/5/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 270 | mg/Kg | 5000 | 3/9/2015 09:29 AM |
| Aroclor 1221 | ND | | 270 | mg/Kg | 5000 | 3/9/2015 09:29 AM |
| Aroclor 1232 | ND | | 270 | mg/Kg | 5000 | 3/9/2015 09:29 AM |
| Aroclor 1242 | ND | | 270 | mg/Kg | 5000 | 3/9/2015 09:29 AM |
| Aroclor 1248 | ND | | 270 | mg/Kg | 5000 | 3/9/2015 09:29 AM |
| Aroclor 1254 | 3,800 | B | 270 | mg/Kg | 5000 | 3/9/2015 09:29 AM |
| Aroclor 1260 | ND | | 270 | mg/Kg | 5000 | 3/9/2015 09:29 AM |
| Aroclor 1262 | ND | | 270 | mg/Kg | 5000 | 3/9/2015 09:29 AM |
| Aroclor 1268 | ND | | 270 | mg/Kg | 5000 | 3/9/2015 09:29 AM |
| PCBs, Total | 3,800 | | | mg/Kg | 5000 | 3/9/2015 09:29 AM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 5000 | 3/9/2015 09:29 AM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 5000 | 3/9/2015 09:29 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Analytical Results Page 21 of 24

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp

Project: MHS/JCES (0433980P)

Work Order: 1503051

Sample ID: 022815-MHS-B700-R704-L5-C1

Lab ID: 1503051-22

Collection Date: 2/28/2015 05:30 PM

Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|--------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/5/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 160 | mg/Kg | 5000 | 3/9/2015 09:46 AM |
| Aroclor 1221 | ND | | 160 | mg/Kg | 5000 | 3/9/2015 09:46 AM |
| Aroclor 1232 | ND | | 160 | mg/Kg | 5000 | 3/9/2015 09:46 AM |
| Aroclor 1242 | ND | | 160 | mg/Kg | 5000 | 3/9/2015 09:46 AM |
| Aroclor 1248 | ND | | 160 | mg/Kg | 5000 | 3/9/2015 09:46 AM |
| Aroclor 1254 | 1,800 | B | 160 | mg/Kg | 5000 | 3/9/2015 09:46 AM |
| Aroclor 1260 | ND | | 160 | mg/Kg | 5000 | 3/9/2015 09:46 AM |
| Aroclor 1262 | ND | | 160 | mg/Kg | 5000 | 3/9/2015 09:46 AM |
| Aroclor 1268 | ND | | 160 | mg/Kg | 5000 | 3/9/2015 09:46 AM |
| PCBs, Total | 1,800 | | | mg/Kg | 5000 | 3/9/2015 09:46 AM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 5000 | 3/9/2015 09:46 AM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 5000 | 3/9/2015 09:46 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Analytical Results Page 22 of 24

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp

Project: MHS/JCES (0433980P)

Work Order: 1503051

Sample ID: 022815-MHS-B700-R704-L5-C2

Lab ID: 1503051-23

Collection Date: 2/28/2015 06:20 PM

Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|--------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:03 AM |
| Aroclor 1221 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:03 AM |
| Aroclor 1232 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:03 AM |
| Aroclor 1242 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:03 AM |
| Aroclor 1248 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:03 AM |
| Aroclor 1254 | 1,500 | B | 140 | mg/Kg | 5000 | 3/9/2015 10:03 AM |
| Aroclor 1260 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:03 AM |
| Aroclor 1262 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:03 AM |
| Aroclor 1268 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:03 AM |
| PCBs, Total | 1,500 | | | mg/Kg | 5000 | 3/9/2015 10:03 AM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 5000 | 3/9/2015 10:03 AM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 5000 | 3/9/2015 10:03 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

ALS Group USA, Corp

Date: 10-Mar-15

Client: ENVIRON International Corp

Project: MHS/JCES (0433980P)

Work Order: 1503051

Sample ID: 022815-MHS-B700-R704-L2-C1

Lab ID: 1503051-24

Collection Date: 2/28/2015 06:20 PM

Matrix: SOLID

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------------|--------------|------|---------------|--------------|------------------------|-------------------|
| PCBS | | | SW8082 | | Prep: SW3540C / 3/4/15 | Analyst: KYM |
| Aroclor 1016 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:20 AM |
| Aroclor 1221 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:20 AM |
| Aroclor 1232 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:20 AM |
| Aroclor 1242 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:20 AM |
| Aroclor 1248 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:20 AM |
| Aroclor 1254 | 4,500 | B | 140 | mg/Kg | 5000 | 3/9/2015 10:20 AM |
| Aroclor 1260 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:20 AM |
| Aroclor 1262 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:20 AM |
| Aroclor 1268 | ND | | 140 | mg/Kg | 5000 | 3/9/2015 10:20 AM |
| PCBs, Total | 4,500 | | | mg/Kg | 5000 | 3/9/2015 10:20 AM |
| Surr: Decachlorobiphenyl | 0 | S | 40-140 | %REC | 5000 | 3/9/2015 10:20 AM |
| Surr: Tetrachloro-m-xylene | 0 | S | 45-124 | %REC | 5000 | 3/9/2015 10:20 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Analytical Results Page 24 of 24

Client: ENVIRON International Corp
Work Order: 1503051
Project: MHS/JCES (0433980P)

QC BATCH REPORT

Batch ID: **68235** Instrument ID **GC7** Method: **SW8082**

| MBLK | | Sample ID: PBLKS1-68235-68235 | | | | Units: µg/Kg | | Analysis Date: 3/6/2015 07:48 PM | | | |
|-----------------------------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: GC7_150306A | | | | SeqNo: 3169611 | | Prep Date: 3/4/2015 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Aroclor 1016 | ND | 33 | | | | | | | | | |
| Aroclor 1221 | ND | 33 | | | | | | | | | |
| Aroclor 1232 | ND | 33 | | | | | | | | | |
| Aroclor 1242 | ND | 33 | | | | | | | | | |
| Aroclor 1248 | ND | 33 | | | | | | | | | |
| Aroclor 1254 | 100 | 33 | | | | | | | | | |
| Aroclor 1260 | ND | 33 | | | | | | | | | |
| Aroclor 1262 | ND | 33 | | | | | | | | | |
| Aroclor 1268 | ND | 33 | | | | | | | | | |
| PCBs, Total | 100 | 0 | | | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 113.3 | 0 | 166 | 0 | 68.3 | 50-130 | 0 | | | | |
| <i>Surr: Tetrachloro-m-xylene</i> | 103.3 | 0 | 166 | 0 | 62.2 | 45-124 | 0 | | | | |

| LCS | | Sample ID: PLCSS1-68235-68235 | | | | Units: µg/Kg | | Analysis Date: 3/6/2015 08:06 PM | | | |
|-----------------------------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: GC7_150306A | | | | SeqNo: 3169612 | | Prep Date: 3/4/2015 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Aroclor 1016 | 2063 | 33 | 1666 | 0 | 124 | 50-130 | 0 | | | | |
| Aroclor 1260 | 2027 | 33 | 1666 | 0 | 122 | 50-130 | 0 | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 150 | 0 | 166.6 | 0 | 90 | 50-130 | 0 | | | | |
| <i>Surr: Tetrachloro-m-xylene</i> | 146.7 | 0 | 166.6 | 0 | 88 | 45-124 | 0 | | | | |

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1503051-01A | 1503051-02A | 1503051-03A |
| 1503051-04A | 1503051-05A | 1503051-06A |
| 1503051-07A | 1503051-08A | 1503051-09A |
| 1503051-10A | 1503051-11A | 1503051-12A |
| 1503051-13A | 1503051-14A | 1503051-15A |
| 1503051-16A | 1503051-23A | 1503051-24A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Page: 1 of 5

Client: ENVIRON International Corp
 Work Order: 1503051
 Project: MHS/JCES (0433980P)

QC BATCH REPORT

Batch ID: **68282** Instrument ID **GC7** Method: **SW8082**

| MBLK | | Sample ID: PBLKS1-68282-68282 | | | Units: µg/Kg | | Analysis Date: 3/9/2015 02:39 PM | | | |
|-----------------------------------|--------|--------------------------------------|---------|---------------|-----------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: GC7_150306A | | | SeqNo: 3169657 | | Prep Date: 3/5/2015 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | ND | 33 | | | | | | | | |
| Aroclor 1221 | ND | 33 | | | | | | | | |
| Aroclor 1232 | ND | 33 | | | | | | | | |
| Aroclor 1242 | ND | 33 | | | | | | | | |
| Aroclor 1248 | ND | 33 | | | | | | | | |
| Aroclor 1254 | 836.7 | 33 | | | | | | | | |
| Aroclor 1260 | ND | 33 | | | | | | | | |
| Aroclor 1262 | ND | 33 | | | | | | | | |
| Aroclor 1268 | ND | 33 | | | | | | | | |
| PCBs, Total | 836.7 | 0 | | | | | | | | |
| <i>Surr: Decachlorobiphenyl</i> | 163.3 | 0 | 166 | 0 | 98.4 | 50-130 | 0 | | | |
| <i>Surr: Tetrachloro-m-xylene</i> | 140 | 0 | 166 | 0 | 84.3 | 45-124 | 0 | | | |

| LCS | | Sample ID: PLCSS1-68282-68282 | | | Units: µg/Kg | | Analysis Date: 3/6/2015 10:54 PM | | | |
|-----------------------------------|--------|--------------------------------------|---------|---------------|-----------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: GC7_150306A | | | SeqNo: 3169658 | | Prep Date: 3/5/2015 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | 2930 | 33 | 1666 | 0 | 176 | 50-130 | 0 | | | S |
| Aroclor 1260 | 3203 | 33 | 1666 | 0 | 192 | 50-130 | 0 | | | S |
| <i>Surr: Decachlorobiphenyl</i> | 150 | 0 | 166 | 0 | 90.4 | 50-130 | 0 | | | |
| <i>Surr: Tetrachloro-m-xylene</i> | 143.3 | 0 | 166 | 0 | 86.3 | 45-124 | 0 | | | |

| MS | | Sample ID: 1503051-17A MS | | | Units: µg/Kg | | Analysis Date: 3/9/2015 11:10 AM | | | |
|--|--------|----------------------------------|---------|---------------|-----------------------|---------------|---|------|-----------------|------|
| Client ID: 022815-MHS-B000-R3-L4-C1 | | Run ID: GC7_150306A | | | SeqNo: 3169650 | | Prep Date: 3/5/2015 | | DF: 5000 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | ND | 160,000 | 1629 | 0 | 0 | 40-140 | 0 | | | S |
| Aroclor 1260 | ND | 160,000 | 1629 | 0 | 0 | 40-140 | 0 | | | S |
| <i>Surr: Decachlorobiphenyl</i> | ND | 0 | 162.3 | 0 | 0 | 40-140 | 0 | | | S |
| <i>Surr: Tetrachloro-m-xylene</i> | ND | 0 | 162.3 | 0 | 0 | 45-124 | 0 | | | S |

| MSD | | Sample ID: 1503051-17A MSD | | | Units: µg/Kg | | Analysis Date: 3/9/2015 11:27 AM | | | |
|--|--------|-----------------------------------|---------|---------------|-----------------------|---------------|---|------|-----------------|------|
| Client ID: 022815-MHS-B000-R3-L4-C1 | | Run ID: GC7_150306A | | | SeqNo: 3169651 | | Prep Date: 3/5/2015 | | DF: 5000 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | ND | 140,000 | 1420 | 0 | 0 | 40-140 | 0 | 0 | 50 | S |
| Aroclor 1260 | ND | 140,000 | 1420 | 0 | 0 | 40-140 | 0 | 0 | 50 | S |
| <i>Surr: Decachlorobiphenyl</i> | ND | 0 | 141.5 | 0 | 0 | 40-140 | 0 | 0 | 50 | S |
| <i>Surr: Tetrachloro-m-xylene</i> | ND | 0 | 141.5 | 0 | 0 | 45-124 | 0 | 0 | 50 | S |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Page: 2 of 5

Client: ENVIRON International Corp

Work Order: 1503051

Project: MHS/JCES (0433980P)

QC BATCH REPORT

Batch ID: **68282**

Instrument ID **GC7**

Method: **SW8082**

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1503051-17A | 1503051-18A | 1503051-19A |
| 1503051-20A | 1503051-21A | 1503051-22A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Page: 3 of 5

Client: ENVIRON International Corp
 Work Order: 1503051
 Project: MHS/JCES (0433980P)

QC BATCH REPORT

Batch ID: **R158603** Instrument ID **MOIST** Method: **E160.3M**

| MBLK | | Sample ID: WBLKS-R158603 | | | | Units: % of sample | | Analysis Date: 3/4/2015 02:30 PM | | |
|------------|--------|---------------------------------|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: MOIST_150304A | | SeqNo: 3165945 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 0.03 | 0.050 | | | | | | | | J |

| LCS | | Sample ID: LCS-R158603 | | | | Units: % of sample | | Analysis Date: 3/4/2015 02:30 PM | | |
|------------|--------|-------------------------------|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: MOIST_150304A | | SeqNo: 3165944 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 99.99 | 0.050 | 100 | 0 | 100 | 99.5-100.5 | 0 | | | |

| DUP | | Sample ID: 15021275-01A DUP | | | | Units: % of sample | | Analysis Date: 3/4/2015 02:30 PM | | |
|------------|--------|------------------------------------|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: MOIST_150304A | | SeqNo: 3165922 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 10.88 | 0.050 | 0 | 0 | 0 | | 10.8 | 0.738 | 20 | |

| DUP | | Sample ID: 1503156-01A DUP | | | | Units: % of sample | | Analysis Date: 3/4/2015 02:30 PM | | |
|------------|--------|-----------------------------------|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: MOIST_150304A | | SeqNo: 3165936 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 42.17 | 0.050 | 0 | 0 | 0 | | 41.67 | 1.19 | 20 | |

The following samples were analyzed in this batch: 1503051-05A 1503051-06A 1503051-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Page: 4 of 5

Client: ENVIRON International Corp
 Work Order: 1503051
 Project: MHS/JCES (0433980P)

QC BATCH REPORT

Batch ID: **R158633** Instrument ID **MOIST** Method: **E160.3M**

| MBLK | | Sample ID: WBLKS-R158633 | | | | Units: % of sample | | Analysis Date: 3/5/2015 10:20 AM | | |
|------------|--------|---------------------------------|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: MOIST_150305A | | SeqNo: 3166494 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | ND | 0.050 | | | | | | | | |

| LCS | | Sample ID: LCS-R158633 | | | | Units: % of sample | | Analysis Date: 3/5/2015 10:20 AM | | |
|------------|--------|-------------------------------|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: MOIST_150305A | | SeqNo: 3166493 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 100 | 0.050 | 100 | 0 | 100 | 99.5-100.5 | 0 | | | |

| DUP | | Sample ID: 1503135-01B DUP | | | | Units: % of sample | | Analysis Date: 3/5/2015 10:20 AM | | |
|------------|--------|-----------------------------------|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: MOIST_150305A | | SeqNo: 3166492 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 9.87 | 0.050 | 0 | 0 | 0 | | 9.84 | 0.304 | 20 | |

The following samples were analyzed in this batch: 1503051-17A 1503051-18A 1503051-20A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC Page: 5 of 5



ALS Environmental
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 3

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

| Customer Information | | Project Information | | | | | Parameter/Method Request for Analysis | | | | | | | | | | |
|--|--|-----------------------------------|--|--|----------------------|---------------|--|---|---|---|---|---|---|---|---|---|------|
| Purchase Order | | Project Name | MHS/JCES | | | A | EPA Method 8082 for Aroclors w/ Soxhlet Extraction Method 3540 | | | | | | | | | | |
| Work Order | | Project Number | 0433980P | | | B | NA | | | | | | | | | | |
| Company Name | ENVIRON | Bill To Company | ENVIRON | | | C | NA | | | | | | | | | | |
| Send Report To | Doug Daugherty | Invoice Attn. | Doug Daugherty | | | D | NA | | | | | | | | | | |
| Address | 201 California Street, Suite 1200 | Address | 201 California Street, Suite 1200 | | | E | NA | | | | | | | | | | |
| | | | | | | F | NA | | | | | | | | | | |
| City/State/Zip | San Francisco, CA 94111 | City/State/Zip | San Francisco, CA 94111 | | | G | NA | | | | | | | | | | |
| Phone | T: +1 415 796 1932 | Phone | T: +1 415 796 1932 | | | H | NA | | | | | | | | | | |
| Fax | F: +1 415 398 5812 | Fax | F: +1 415 398 5812 | | | I | NA | | | | | | | | | | |
| e-Mail Address | ddaugherty@Environcorp.com; ARohrDaniel@environcorp.com | e-Mail Address | ddaugherty@Environcorp.com; ARohrDaniel@environcorp.com | | | J | NA | | | | | | | | | | |
| No. | Sample Description | Date | Time | Matrix | Pres. Key Numbers | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
| 1 | 022815-JCES-BF-R18-L1-C1 | 2/28/2015 | 8:00 AM | Cauk | 8 | 1 | X | | | | | | | | | | |
| 2 | 022815-JCES-BF-R18-L1-C2 | 2/28/2015 | 8:00 AM | Cauk | 8 | 1 | X | | | | | | | | | | |
| 3 | 022815-JCES-BF-R18-L2-C1 | 2/28/2015 | 8:00 AM | Cauk | 8 | 1 | X | | | | | | | | | | |
| 4 | 022815-JCES-BF-R19-L1-C1 | 2/28/2015 | 9:30 AM | Cauk | 8 | 1 | X | | | | | | | | | | |
| 5 | 022815-JCES-BF-R19-L1-C2 | 2/28/2015 | 9:30 AM | Cauk | 8 | 1 | X | | | | | | | | | | |
| 6 | 022815-JCES-BF-R19-L2-C1 | 2/28/2015 | 9:30 AM | Cauk | 8 | 1 | X | | | | | | | | | | |
| 7 | 022815-JCES-BF-R23-L1-C1 | 2/28/2015 | 11:00 AM | Cauk | 8 | 1 | X | | | | | | | | | | |
| 8 | 022815-JCES-BF-R23-L1-C2 | 2/28/2015 | 11:00 AM | Cauk | 8 | 1 | X | | | | | | | | | | |
| 9 | 022815-JCES-BF-R23-L2-C1 | 2/28/2015 | 11:00 AM | Cauk | 8 | 1 | X | | | | | | | | | | |
| 10 | 022815-JCES-BF-R23-L3-C1 | 2/28/2015 | 11:00 AM | Cauk | 8 | 1 | X | | | | | | | | | | |
| Sampler(s): Please Print & Sign <i>Rebecca Herrmann</i> | | Shipment Method: <i>FED-EX</i> | | Regulated Turnaround Time: (Check Box) <input type="checkbox"/> 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 3 Wk Days <input checked="" type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour | | | | Results Due Date: | | | | | | | | | |
| Relinquished by: <i>REBECCA HERRMANN</i> <small>Rebecca Herrmann</small> | Date: <i>3/2/15</i> | Time: <i>11:00</i> | Received by: <i>FED EX</i> | Date: | Time: | Notes: | | | | | | | | | | | |
| Relinquished by: <i>FED EX</i> | Date: | Time: | Received by (Laboratory): <i>DES</i> | Date: <i>3/3/15</i> | Time: <i>0815</i> | ALS Cooler ID | Cooler Temp <i>3.2°C</i> | QC Package: (Check Box Below) <input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data <input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV <input checked="" type="checkbox"/> Level IV: SW846 Methods/CLP like <input type="checkbox"/> Other: | | | | | | | | | |
| Logged by (Laboratory): <i>DES</i> | Date: <i>3/3/15</i> | Time: <i>0830</i> | Checked by (Laboratory): <i>DES</i> | | | | | | | | | | | | | | |

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



ALS Environmental
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 2 of 3

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

| Customer Information | | Project Information | | | | | Parameter/Method Request for Analysis | | | | | | | | | | |
|--|--|----------------------------|--|---|-------------------|--|---------------------------------------|--|---|-------------------------|---|---|---|---|---|---|------|
| Purchase Order | | Project Name | MHS/JCES | | A | EPA Method 8082 for Aroclors w/ Soxhlet Extraction Method 3540 | | | | | | | | | | | |
| Work Order | | Project Number | 0433980P | | B | Moisture | | | | | | | | | | | |
| Company Name | ENVIRON | Bill To Company | ENVIRON | | C | NA | | | | | | | | | | | |
| Send Report To | Doug Daugherty | Invoice Attn | Doug Daugherty | | D | NA | | | | | | | | | | | |
| Address | 201 California Street, Suite 1200 | Address | 201 California Street, Suite 1200 | | E | NA | | | | | | | | | | | |
| | | | | | F | NA | | | | | | | | | | | |
| City/State/Zip | San Francisco, CA 94111 | City/State/Zip | San Francisco, CA 94111 | | G | NA | | | | | | | | | | | |
| Phone | T: +1 415 796 1932 | Phone | T: +1 415 796 1932 | | H | NA | | | | | | | | | | | |
| Fax | F: +1 415 398 5812 | Fax | F: +1 415 398 5812 | | I | NA | | | | | | | | | | | |
| e-Mail Address | ddaugherty@Environcorp.com; ARohrDaniel@environcorp.com | e-Mail Address | ddaugherty@Environcorp.com; ARohrDaniel@environcorp.com | | J | NA | | | | | | | | | | | |
| No. | Sample Description | Date | Time | Matrix | Pres. Key Numbers | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
| 1 | 022815-JCES-BF-R22-L6-C1 | 2/28/2015 | 12:00 PM | Caulk | 8 | 1 | X | | | | | | | | | | |
| 2 | 022815-JCES-BF-R22-L6-C2 | 2/28/2015 | 12:00 PM | Caulk | 8 | 1 | X | | | | | | | | | | |
| 3 | 022815-JCES-BF-R22-L7-C1 | 2/28/2015 | 12:00 PM | Caulk | 8 | 1 | X | | | | | | | | | | |
| 4 | 022815-JCES-BF-R22-L7-C2 | 2/28/2015 | 12:00 PM | Caulk | 8 | 1 | X | | | | | | | | | | |
| 5 | 022815-MHS-B000-R7-L1-C1 | 2/28/2015 | 1:15 PM | Caulk | 8 | 1 | X | | | | | | | | | | |
| 6 | 022815-MHS-B000-R7-L2-C1 | 2/28/2015 | 1:15 PM | Caulk | 8 | 1 | X | | | | | | | | | | |
| 7 | 022815-MHS-B000-R3-L4-C1 | 2/28/2015 | 2:30 PM | Caulk | 8 | 1 | X | X | | | | | | | | | |
| 8 | 022815-MHS-B000-R3-L10-C1 | 2/28/2015 | 2:30 PM | Caulk | 8 | 1 | X | | | | | | | | | | |
| 9 | 022815-MHS-B400-R401-L1-C1 | 2/28/2015 | 3:15 PM | Caulk | 8 | 1 | X | | | | | | | | | | |
| 10 | 022815-MHS-B500-R505-L1-C1 | 2/28/2015 | 4:00 PM | Caulk | 8 | 1 | X | | | | | | | | | | |
| Sampler(s): Please Print & Sign <i>REBECCA HERRMANN</i> | | Shipment Method: FED-EX | | Required Turnaround Time: (Check Box) <input type="checkbox"/> 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 3 Wk Days <input checked="" type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour | | | | Other: _____ | | Results Due Date: _____ | | | | | | | |
| Relinquished by: <i>REBECCA HERRMANN</i> | Date: 3/2/15 | Time: 1600 | Received by: <i>[Signature]</i> | Date: 3/3/15 | Time: 0815 | Notes: _____ | | | | | | | | | | | |
| Relinquished by: FED EX | Date: | Time: | Received by (Laboratory): <i>[Signature]</i> | Date: 3/3/15 | Time: 0815 | ALS Cooler ID | Cooler Temp 3.2°C | QC Package: (Check Box Below) <input type="checkbox"/> Level III: Standard QC <input type="checkbox"/> Level III: Raw Data <input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV <input checked="" type="checkbox"/> Level IV: SW846 Methods/CLP like <input type="checkbox"/> Other: _____ | | | | | | | | | |
| Logged by (Laboratory): DFS | Date: 3/3/15 | Time: 0830 | Checked by (Laboratory): <i>[Signature]</i> | | | | | | | | | | | | | | |

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



ALS Environmental
 10450 Stancliff Rd. #210
 Houston, Texas 77099
 (Tel) 281.530.5656
 (Fax) 281.530.5887

Chain of Custody Form

Page 3 of 3

ALS Environmental
 3352 128th Avenue
 Holland, Michigan 49424
 (Tel) 616.399.6070
 (Fax) 616.399.6185

| Customer Information | | Project Information | | | | | Parameter/Method Request for Analysis | | | | | | | | | | | | | | | |
|----------------------|---|---------------------|---|--------|-------------------|-----------|--|---|---|---|---|---|---|---|---|---|------|--|--|--|--|--|
| Purchase Order | | Project Name | MHS/JCES | | | A | EPA Method 8082 for Aroclors w/ Soxhlet Extraction Method 3540 | | | | | | | | | | | | | | | |
| Work Order | | Project Number | 0433980P | | | B | NA | | | | | | | | | | | | | | | |
| Company Name | ENVIRON | Bill To Company | ENVIRON | | | C | NA | | | | | | | | | | | | | | | |
| Send Report To | Doug Daugherty | Invoice Attn. | Doug Daugherty | | | D | NA | | | | | | | | | | | | | | | |
| Address | 201 California Street, Suite 1200 | Address | 201 California Street, Suite 1200 | | | E | NA | | | | | | | | | | | | | | | |
| City/State/Zip | San Francisco, CA 94111 | City/State/Zip | San Francisco, CA 94111 | | | F | NA | | | | | | | | | | | | | | | |
| Phone | T: +1 415 796 1932 | Phone | T: +1 415 796 1932 | | | G | NA | | | | | | | | | | | | | | | |
| Fax | F: +1 415 398 5812 | Fax | F: +1 415 398 5812 | | | H | NA | | | | | | | | | | | | | | | |
| e-Mail Address | dougherty@Environcorp.com; ARohrDaniel@environcorp.com | e-Mail Address | dougherty@Environcorp.com; ARohrDaniel@environcorp.com | | | I | NA | | | | | | | | | | | | | | | |
| J | NA | | | | | | | | | | | | | | | | | | | | | |
| No. | Sample Description | Date | Time | Matrix | Pres. Key Numbers | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold | | | | | |
| 2.1 | 022815-MHS-B700-R704-Hal-L1-C1 | 2/28/2015 | 4:45 PM | Caulk | 8 | 1 | X | | | | | | | | | | | | | | | |
| 2.2 | 022815-MHS-B700-R704-L5-C1 | 2/28/2015 | 5:30 PM | Caulk | 8 | 1 | X | | | | | | | | | | | | | | | |
| 2.3 | 022815-MHS-B700-R704-L5-C2 | 2/28/2015 | 6:20 PM | Caulk | 8 | 1 | X | | | | | | | | | | | | | | | |
| 2.4 | 022815-MHS-B700-R704-L2-C1 | 2/28/2015 | 6:20 PM | Caulk | 8 | 1 | X | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |

Sampler(s): Please Print & Sign *Rebecca Herrmann* Shipment Method: **FED-EX** Required Turnaround Time: (Check Box) 10 Wk Days 5 Wk Days 3 Wk Days 2 Wk Days 24 Hour Results Due Date:

Relinquished by: *Rebecca Herrmann* Date: *3/2/15* Time: *1600* Received by: *FED EX* Date: Time: Notes:

Relinquished by: *FED EX* Date: Time: Received by (Laboratory): *[Signature]* Date: *3/3/15* Time: *0815* ALS Cooler ID: Cooler Temp: *3.2* QC Package: (Check Box Below)

Logged by (Laboratory): *DES* Date: *3/3/15* Time: *0830* Checked by (Laboratory): *[Signature]* Level II: Standard QC Level III: Raw Data TRRP LRC TRRP Level IV Level IV: SW846 Methods/CLP like Other:

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

FedEx

FedEx

FedEx

FedEx

FedEx

FedEx

From: (040) 281-5151
Rebecca Harmann
ENVIRON International Corp
18100 Von Karman Ave.
Suite 600
Irvine, CA 92612

Origin ID: NZJA



J151215022303UN

Ship Date: 02MAR15
ActWgt: 15.0 LB
CAD: 100440508/NET3010

Delivery Address Bar Code



Ref # 0433960P
Invoice #
PO #
Dept #

SHIP TO: (616) 399-6878
ALS Environmental

3352 128th Avenue

HOLLAND, MI 49424

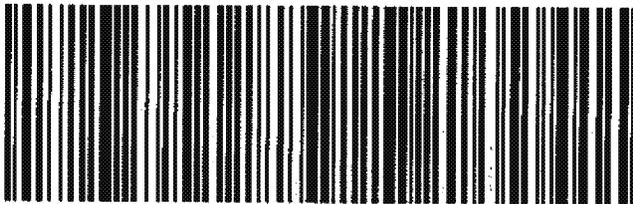
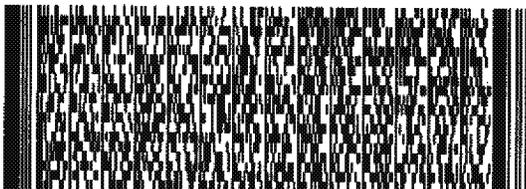
BILL SENDER

TUE - 03 MAR 9:00A
FIRST OVERNIGHT

TRK# 7730 2978 5881
6291

49424
MI-US
GRR

X1 HLMA



537J1879AEE4B

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in the current FedEx Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

| | | | |
|---|---------------------|------------|-------------|
|  <p>ALS Environmental 3352 128th Avenue Holland, Michigan 49424 Tel: +1 616 399 6070 Fax: +1 616 399 6185</p> | CUSTODY SEAL | | Seal Broken |
| | Date: 3/2/15 | Time: 1000 | Date: |
| Name: REBECCA HERRMANN | | Date: | |
| Company: ENVIRON | | Date: | |

FedEx 148525 Rev. 02/09 P1000 14

Sample Receipt Checklist

Client Name: **ENVIRONINT - CA**

Date/Time Received: **03-Mar-15 08:15**

Work Order: **1503051**

Received by: **DS**

Checklist completed by *Diane Shaw*
eSignature

03-Mar-15
Date

Reviewed by: *Alex Cozzar*
eSignature

03-Mar-15
Date

Matrices: **Solid**
Carrier name: **FedEx**

| | | | |
|---|--|--|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample(s) received on ice? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temperature(s)/Thermometer(s): | <input type="text" value="3.2 c"/> | | <input type="text" value="SR2"/> |
| Cooler(s)/Kit(s): | <input type="text"/> | | |
| Date/Time sample(s) sent to storage: | <input type="text" value="3/3/2015 9:11:41 AM"/> | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| pH adjusted? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| pH adjusted by: | <input type="text"/> | | |

Login Notes: Limited volumes for all samples.

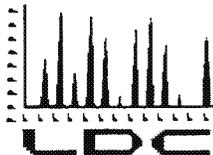
Client Contacted: _____ Date Contacted: _____ Person Contacted: _____
 Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

Data Validation Report #33878 (Bulk)

Sample Date: February 28, 2015
MHS and JCES



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ENVIRON International Corporation
18100 Von Karman Avenue Ste. 600
Irvine, CA 92612
Attn: Ms. Yi Tian

March 18, 2015

SUBJECT: SMMUSD, Data Validation

Dear Ms. Tian

Enclosed is the final validation report for the fraction listed below. This SDG was received on March 13, 2015. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #33878:

| <u>SDG #</u> | <u>Fraction</u> |
|---------------------|---------------------------|
| 1503051 | Polychlorinated Biphenyls |

The data validation was performed under EPA Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Andrew Kong
Project Manager/Senior Chemist

Per SDG

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: SMMUSD
Collection Date: February 28, 2015
LDC Report Date: March 16, 2015
Matrix: Caulk
Parameters: Polychlorinated Biphenyls
Validation Level: EPA Level IV
Laboratory: ALS Environmental
Sample Delivery Group (SDG): 1503051

Sample Identification

| | |
|----------------------------|--------------------------------|
| 022815-JCES-BF-R18-L1-C1 | 022815-MHS-B700-R704Hall-L1-C1 |
| 022815-JCES-BF-R18-L1-C2 | 022815-MHS-B700-R704-L5-C1 |
| 022815-JCES-BF-R18-L2-C1 | 022815-MHS-B700-R704-L5-C2 |
| 022815-JCES-BF-R19-L1-C1 | 022815-MHS-B700-R704-L2-C1 |
| 022815-JCES-BF-R19-L1-C2 | 022815-MHS-B000-R3-L4-C1MS |
| 022815-JCES-BF-R19-L2-C1 | 022815-MHS-B000-R3-L4-C1MSD |
| 022815-JCES-BF-R23-L1-C1 | |
| 022815-JCES-BF-R23-L1-C2 | |
| 022815-JCES-BF-R23-L2-C1 | |
| 022815-JCES-BF-R23-L3-C1 | |
| 022815-JCES-BF-R22-L6-C1 | |
| 022815-JCES-BF-R22-L6-C2 | |
| 022815-JCES-BF-R22-L7-C1 | |
| 022815-JCES-BF-R22-L7-C2 | |
| 022815-MHS-B000-R7-L1-C1 | |
| 022815-MHS-B000-R7-L2-C1 | |
| 022815-MHS-B000-R3-L4-C1 | |
| 022815-MHS-B000-R3-L10-C1 | |
| 022815-MHS-B400-R401-L1-C1 | |
| 022815-MHS-B500-R505-L1-C1 | |

Introduction

This data review covers 26 caulk samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC Instrument Performance Check

Instrument performance was not required by the method.

III. Initial Calibration

Initial calibration was performed as required by the method.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990.

Retention time windows were established as required by the method.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times of all compounds in the calibration standards were within the established retention time windows.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks with the following exceptions:

| Method Blank ID | Extraction Date | Compound | Concentration | Associated Samples |
|-----------------|-----------------|-----------------------------|----------------------------|--|
| PBLKS1-68235 | 3/4/15 | Aroclor-1254 PCBs, Total | 100 ug/Kg 100 ug/Kg | 022815-JCES-BF-R18-L1-C1 022815-JCES-BF-R18-L1-C2 022815-JCES-BF-R18-L2-C1 022815-JCES-BF-R19-L1-C1 022815-JCES-BF-R19-L1-C2 022815-JCES-BF-R19-L2-C1 022815-JCES-BF-R23-L1-C1 022815-JCES-BF-R23-L1-C2 022815-JCES-BF-R23-L2-C1 022815-JCES-BF-R23-L3-C1 022815-JCES-BF-R22-L6-C1 022815-JCES-BF-R22-L6-C2 022815-JCES-BF-R22-L7-C1 022815-JCES-BF-R22-L7-C2 022815-MHS-B000-R7-L1-C1 022815-MHS-B000-R7-L2-C1 022815-MHS-B700-R704-L5-C2 022815-MHS-B700-R704-L2-C1 |
| PBLKS1-68282 | 3/5/15 | Aroclor-1254 PCBs, Total | 836.7 ug/Kg 836.7 ug/Kg | 022815-MHS-B000-R3-L4-C1 022815-MHS-B000-R3-L10-C1 022815-MHS-B400-R401-L1-C1 022815-MHS-B500-R505-L1-C1 022815-MHS-B700-R704Hall-L1-C1 022815-MHS-B700-R704-L5-C1 |

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

| Sample | Compound | Reported Concentration | Modified Final Concentration |
|--------------------------------|-----------------------------|--------------------------|------------------------------|
| 022815-MHS-B000-R7-L1-C1 | Aroclor-1254 PCBs, Total | 330 ug/Kg 330 ug/Kg | 330U ug/Kg 330U ug/Kg |
| 022815-MHS-B000-R3-L4-C1 | Aroclor-1254 PCBs, Total | 1600 ug/Kg 1600 ug/Kg | 1600U ug/Kg 1600U ug/Kg |
| 022815-MHS-B000-R3-L10-C1 | Aroclor-1254 PCBs, Total | 1800 ug/Kg 1800 ug/Kg | 1800U ug/Kg 1800U ug/Kg |
| 022815-MHS-B700-R704Hall-L1-C1 | Aroclor-1254 PCBs, Total | 3800 ug/Kg 3800 ug/Kg | 3800U ug/Kg 3800U ug/Kg |
| 022815-MHS-B700-R704-L5-C1 | Aroclor-1254 PCBs, Total | 1800 ug/Kg 1800 ug/Kg | 1800U ug/Kg 1800U ug/Kg |

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits for all samples. No data were qualified for samples analyzed at greater than or equal to a 5X dilution.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were not within the QC limits for 022815-MHS-B000-R3-L4-C1MS/MSD. No data were qualified for MS/MSD samples analyzed greater than or equal to a 5X dilution.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

| LCS ID | Compound | %R (Limits) | Associated Samples | Affected Compound | Flag | A or P |
|--------------|------------------------------|------------------------------|---|-------------------|-----------------|--------|
| PLCSS1-68282 | Aroclor-1016 Aroclor-1260 | 178 (50-130) 186 (50-130) | 022815-MHS-B000-R3-L4-C1 022815-MHS-B000-R3-L10-C1 022815-MHS-B400-R401-L1-C1 022815-MHS-B500-R505-L1-C1 022815-MHS-B700-R704Hall-L1-C1 022815-MHS-B700-R704-L5-C1 PBLKS1-68282 | All TCL compounds | J (all detects) | P |

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not reviewed in this SDG.

XI. GPC Calibration

GPC cleanup was not reviewed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation

All compound quantitations were within validation criteria.

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

SMMUSD**Polychlorinated Biphenyls - Data Qualification Summary - SDG 1503051**

| SDG | Sample | Compound | Flag | A or P | Reason |
|---------|---|-------------------|-----------------|--------|---------------------------------|
| 1503051 | 022815-MHS-B000-R3-L4-C1 022815-MHS-B000-R3-L10-C1 022815-MHS-B400-R401-L1-C1 022815-MHS-B500-R505-L1-C1 022815-MHS-B700-R704Hall-L1-C1 022815-MHS-B700-R704-L5-C1 | All TCL compounds | J (all detects) | P | Laboratory control samples (%R) |

SMMUSD**Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 1503051**

| SDG | Sample | Compound | Modified Final Concentration | A or P |
|---------|--------------------------------|-----------------------------|------------------------------|--------|
| 1503051 | 022815-MHS-B000-R7-L1-C1 | Aroclor-1254 PCBs, Total | 330U ug/Kg 330U ug/Kg | A |
| 1503051 | 022815-MHS-B000-R3-L4-C1 | Aroclor-1254 PCBs, Total | 1600U ug/Kg 1600U ug/Kg | A |
| 1503051 | 022815-MHS-B000-R3-L10-C1 | Aroclor-1254 PCBs, Total | 1800U ug/Kg 1800U ug/Kg | A |
| 1503051 | 022815-MHS-B700-R704Hall-L1-C1 | Aroclor-1254 PCBs, Total | 3800U ug/Kg 3800U ug/Kg | A |
| 1503051 | 022815-MHS-B700-R704-L5-C1 | Aroclor-1254 PCBs, Total | 1800U ug/Kg 1800U ug/Kg | A |

SMMUSD**Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG 1503051**

No Sample Data Qualified in this SDG

LDC #: 33878A3b

VALIDATION COMPLETENESS WORKSHEET

Date: 3-13-15

SDG #: 1503051

Level IV

Page: 1 of 2

Laboratory: ALS Environmental

Reviewer: TR

2nd Reviewer: A

METHOD: GC Polychlorinated Biphenyls (EPA SW846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|-------|--|----------|-----------|
| I. | Sample receipt/Technical holding times | A, A | |
| II. | GC Instrument Performance Check | N | |
| III. | Initial calibration/ICV | A, SW, A | r2 / ≤ 20 |
| IV. | Continuing calibration | A | ≤ 20 |
| V. | Laboratory Blanks | SW | |
| VI. | Field blanks | N | |
| VII. | Surrogate spikes | SW | |
| VIII. | Matrix spike/Matrix spike duplicates | SW | |
| IX. | Laboratory control samples | SW | LCS |
| X. | Field duplicates | N | |
| XI. | Compound quantitation/RL/LOQ/LODs | A | |
| XII. | Target compound identification | A | |
| XIII. | Overall assessment of data | A | |

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

OTHER:

| | Client ID | Lab ID | Matrix | Date |
|----|--------------------------|------------|--------|----------|
| 1 | 022815-JCES-BF-R18-L1-C1 | 1503051-01 | Caulk | 02/28/15 |
| 2 | 022815-JCES-BF-R18-L1-C2 | 1503051-02 | Caulk | 02/28/15 |
| 3 | 022815-JCES-BF-R18-L2-C1 | 1503051-03 | Caulk | 02/28/15 |
| 4 | 022815-JCES-BF-R19-L1-C1 | 1503051-04 | Caulk | 02/28/15 |
| 5 | 022815-JCES-BF-R19-L1-C2 | 1503051-05 | Caulk | 02/28/15 |
| 6 | 022815-JCES-BF-R19-L2-C1 | 1503051-06 | Caulk | 02/28/15 |
| 7 | 022815-JCES-BF-R23-L1-C1 | 1503051-07 | Caulk | 02/28/15 |
| 8 | 022815-JCES-BF-R23-L1-C2 | 1503051-08 | Caulk | 02/28/15 |
| 9 | 022815-JCES-BF-R23-L2-C1 | 1503051-09 | Caulk | 02/28/15 |
| 10 | 022815-JCES-BF-R23-L3-C1 | 1503051-10 | Caulk | 02/28/15 |
| 11 | 022815-JCES-BF-R22-L6-C1 | 1503051-11 | Caulk | 02/28/15 |
| 12 | 022815-JCES-BF-R22-L6-C2 | 1503051-12 | Caulk | 02/28/15 |
| 13 | 022815-JCES-BF-R22-L7-C1 | 1503051-13 | Caulk | 02/28/15 |
| 14 | 022815-JCES-BF-R22-L7-C2 | 1503051-14 | Caulk | 02/28/15 |
| 15 | 022815-MHS-B000-R7-L1-C1 | 1503051-15 | Caulk | 02/28/15 |
| 16 | 022815-MHS-B000-R7-L2-C1 | 1503051-16 | Caulk | 02/28/15 |

LDC #: 33878A3b

VALIDATION COMPLETENESS WORKSHEET

Date: 3-13-15

SDG #: 1503051

Level IV

Page: 2 of 2

Laboratory: ALS Environmental

Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Polychlorinated Biphenyls (EPA SW846 Method 8082)

| | Client ID | Lab ID | Matrix | Date |
|----|--------------------------------|---------------|--------|----------|
| 17 | 022815-MHS-B000-R3-L4-C1 | 1503051-17 | Caulk | 02/28/15 |
| 18 | 022815-MHS-B000-R3-L10-C1 | 1503051-18 | Caulk | 02/28/15 |
| 19 | 022815-MHS-B400-R401-L1-C1 | 1503051-19 | Caulk | 02/28/15 |
| 20 | 022815-MHS-B500-R505-L1-C1 | 1503051-20 | Caulk | 02/28/15 |
| 21 | 022815-MHS-B700-R704Hall-L1-C1 | 1503051-21 | Caulk | 02/28/15 |
| 22 | 022815-MHS-B700-R704-L5-C1 | 1503051-22 | Caulk | 02/28/15 |
| 23 | 022815-MHS-B700-R704-L5-C2 | 1503051-23 | Caulk | 02/28/15 |
| 24 | 022815-MHS-B700-R704-L2-C1 | 1503051-24 | Caulk | 02/28/15 |
| 25 | 022815-MHS-B000-R3-L4-C1MS | 1503051-17MS | Caulk | 02/28/15 |
| 26 | 022815-MHS-B000-R3-L4-C1MSD | 1503051-17MSD | Caulk | 02/28/15 |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| 31 | | | | |

Notes:

| | | | | | | | |
|---|--------------|---|--|----|--|----|--|
| 1 | PBLKSI-68235 | 5 | | 9 | | 13 | |
| 2 | PBLKSI-68282 | 6 | | 10 | | 14 | |
| 3 | | 7 | | 11 | | 15 | |
| 4 | | 8 | | 12 | | 16 | |

Method: Pesticides/PCBs (EPA SW 846 Method 8081/8082)

| Validation Area | Yes | No | NA | Findings/Comments |
|--|--------------|----|----|-------------------|
| I. Technical holding times | | | | |
| All technical holding times were met. | / | | | |
| Cooler temperature criteria was met. | / | | | |
| II. GC/ECD Instrument performance check | | | | |
| Was the instrument performance found to be acceptable? | | | | |
| III. Initial calibration | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | / | | | |
| Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) \leq 20%? | | / | | |
| Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used? | / | | | |
| Did the initial calibration meet the curve fit acceptance criteria? | / | | | 9/11/15 |
| Were the RT windows properly established? | / | | | |
| Were the required standard concentrations analyzed in the initial calibration? | / | | | |
| IV. Continuing calibration | | | | |
| Were Evaluation mix standards analyzed prior to the initial calibration and sample analysis? | | | / | |
| Were endrin and 4,4'-DDT breakdowns \leq 15%.0 for individual breakdown in the Evaluation mix standards? | | | / | |
| Was a continuing calibration analyzed daily? | / | | | |
| Were all percent differences (%D) \leq 20%.0? | / | | | |
| Were all the retention times within the acceptance windows? | / | | | |
| V. Blanks | | | | |
| Was a method blank associated with every sample in this SDG? | / | | | |
| Was a method blank analyzed for each matrix and concentration? | / | | | |
| Were extract cleanup blanks analyzed with every batch requiring clean-up? | | | / | |
| Was there contamination in the method blanks or clean-up blanks? If yes, please see the Blanks validation completeness worksheet. | / | | | |
| VI. Surrogate spikes | | | | |
| Were all surrogate %R within the QC limits? | | / | | |
| If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R? | | | / | |
| If any %R was less than 10 percent, was a reanalysis performed to confirm %R? | | | / | |
| VII. Matrix spike/Matrix spike duplicates | | | | |
| Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water. | / | | | |

VALIDATION FINDINGS CHECKLIST

| Validation Area | Yes | No | NA | Findings/Comments |
|---|-----|----|----|-------------------|
| Was a MS/MSD analyzed every 20 samples of each matrix? | / | | | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | | / | | |
| VIII. Laboratory control samples | | | | |
| Was an LCS analyzed for this SDG? | / | | | |
| Was an LCS analyzed per extraction batch? | / | | | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | | / | | |
| IX. Regional Quality Assurance and Quality Control | | | | |
| Were performance evaluation (PE) samples performed? | | / | | |
| Were the performance evaluation (PE) samples within the acceptance limits? | | | / | |
| X. Target compound identification | | | | |
| Were the retention times of reported detects within the RT windows? | / | | | |
| XI. Compound quantitation/CRQLs | | | | |
| Were compound quantitation and CRQLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation? | / | | | |
| XII. System performance | | | | |
| System performance was found to be acceptable. | / | | | |
| XIII. Overall assessment of data | | | | |
| Overall assessment of data was found to be acceptable. | / | | | |
| XIV. Field duplicates | | | | |
| Field duplicate pairs were identified in this SDG. | | / | | |
| Target compounds were detected in the field duplicates. | | | / | |
| XV. Field blanks | | | | |
| Field blanks were identified in this SDG. | | / | | |
| Target compounds were detected in the field blanks. | | | / | |

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPA SW 846 Method 8081/8082)

| | | | | |
|-----------------------|-----------------------|--------------------|-----------------------|---------------------------|
| A. alpha-BHC | I. Dieldrin | Q. Endrin ketone | Y. Aroclor-1242 | GG. Chlordane |
| B. beta-BHC | J. 4,4'-DDE | R. Endrin aldehyde | Z. Aroclor-1248 | HH. Chlordane (Technical) |
| C. delta-BHC | K. Endrin | S. alpha-Chlordane | AA. Aroclor-1254 | II. oxy-Chlordane |
| D. gamma-BHC | L. Endosulfan II | T. gamma-Chlordane | BB. Aroclor-1260 | JJ. Mirex |
| E. Heptachlor | M. 4,4'-DDD | U. Toxaphene | CC. 2,4'-DDD | KK. |
| F. Aldrin | N. Endosulfan sulfate | V. Aroclor-1016 | DD. 2,4'-DDE | LL. |
| G. Heptachlor epoxide | O. 4,4'-DDT | W. Aroclor-1221 | EE. 2,4'-DDT | MM. |
| H. Endosulfan I | P. Methoxychlor | X. Aroclor-1232 | FF. Hexachlorobenzene | NN. |

Notes: _____

LDC #: 33878A3b

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- N N/A Were all samples associated with a method blank?
- N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
- N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank extraction date: 3/4/15 Blank analysis date: 3/6/15
Conc. units: µg/Kg

Associated samples: 1-16, 23-24

Qual U

| Compound | Blank ID | Sample Identification | | | | | | | |
|-------------|--------------|-----------------------|-----|--|--|--|--|--|--|
| | | 5x | 15 | | | | | | |
| | PBLKS1-68235 | | | | | | | | |
| AA | 100 | 500 | 330 | | | | | | |
| PCBs, Total | 100 | 500 | 330 | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Blank extraction date: 3/5/15 Blank analysis date: 3/9/15
Conc. units: µg/Kg

Associated samples: 17-22

Qual U

| Compound | Blank ID | Sample Identification | | | | | | |
|-------------|--------------|-----------------------|------|------|------|------|--|--|
| | | 5x | 17 | 18 | 21 | 22 | | |
| | PBLKS1-68282 | | | | | | | |
| AA | 836.7 | 4184 | 1600 | 1800 | 3800 | 1800 | | |
| PCBs, Total | 836.7 | 4184 | 1600 | 1800 | 3800 | 1800 | | |
| | | | | | | | | |
| | | | | | | | | |

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
 Average CF = sum of the CF/number of standards
 %RSD = 100 * (S/X)

Where: A = Area of compound
 C = Concentration of compound
 S = Standard deviation of calibration factors
 X = Mean of calibration factors

| # | Standard ID | Calibration Date | Compound | Reported | Recalculated | Reported | Recalculated | Reported | Recalculated |
|---|-------------|------------------|----------------|-----------------|-----------------|------------------|--------------|----------|--------------|
| | | | | CF (1.0 std) | CF (1.0 std) | CF (initial) | CF (initial) | %RSD | %RSD |
| 1 | PC030515 | 3-6-15 | PCB 1260253 #1 | 3.763e8 | 3.763e8 | } see attached } | | | |
| | | | #2 | 3.583e8 | 3.583e8 | | | | |
| 2 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 3 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 4 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC#: 33878A3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 2 of 3
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

Method: PCB by EPA SW 846 Method 8082

| Calibration Date | GC | Compound | Standard | (X) Response ratio | (Y) Concentration ratio |
|------------------|-----------|--------------|----------|-----------------------|----------------------------|
| 3/6/2015 | Signal #1 | PCB 1260 {5} | 1 | 39111953 | 0.10 |
| | | | 2 | 9.66E+07 | 0.25 |
| | | | 3 | 1.78E+08 | 0.5 |
| | | | 4 | 3.76E+08 | 1.0 |
| | | | 5 | 7.21E+08 | 2.0 |
| | | | 6 | 1.07E+09 | 3.0 |

| Regression Output | Calculated | Reported |
|------------------------------------|---------------|------------------|
| Constant | 7011477.979 | -11942000.000000 |
| Std Err of Y Est | | |
| R Squared | 0.9997 | 0.997900 |
| Degrees of Freedom | | |
| X Coefficient(s) | 356308231.551 | 362810000.000 |
| Std Err of Coef. | | |
| Correlation Coefficient | 0.9998 | |
| Coefficient of Determination (r^2) | 0.9997 | |

Copy of linear fit _voa

LDC#: 33878A3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 3 of 3
 Reviewer: TR
 2nd Reviewer: SK

Method: PCB by EPA SW 846 Method 8082

| Calibration Date | GC | Compound | Standard | (X) Response ratio | (Y) Concentration ratio |
|------------------|-----------|--------------|----------|-----------------------|----------------------------|
| 3/6/2015 | Signal #2 | PCB 1260 (5) | 1 | 39849183 | 0.10 |
| | | | 2 | 9.50E+07 | 0.25 |
| | | | 3 | 1.86E+08 | 0.5 |
| | | | 4 | 3.58E+08 | 1.0 |
| | | | 5 | 7.36E+08 | 2.0 |
| | | | 6 | 1.13E+09 | 3.0 |

| Regression Output | Calculated | Reported |
|--|---------------|------------------|
| Constant | -2798119.861 | -77469000.000000 |
| Std Err of Y Est | | |
| R Squared | 0.9996 | 0.996700 |
| Degrees of Freedom | | |
| X Coefficient(s) | 373534303.236 | 435740000.000 |
| Std Err of Coef. | | |
| Correlation Coefficient | 0.9998 | |
| Coefficient of Determination (r ²) | 0.9996 | |

Copy of linear fit _voa

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference (%D) = 100 * (ave. CF - CF)/ave. CF
 CF=A/C

Where: ave. CF = initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

| Standard ID | Calibration Date/Time | Compound | Average CF/ CCV <u>Conc</u> | Reported | Recalculated | Reported | Recalculated |
|-------------|-----------------------|---------------|--------------------------------|------------------------|------------------------|----------|--------------|
| | | | | CF/ <u>Conc</u> CCV | CF/ <u>Conc</u> CCV | %D | %D |
| 03061511.D | 3-6-15 17:40 | PCB1260(5) #1 | 5.000 | 4.359 | 4.359 | NR | 12.8 |
| | | #2 | ↓ | 4.395 | 4.395 | NR | 12.1 |
| 03061530.D | 3-6-15 22:37 | PCB1260(5) #1 | 5.000 | 4.312 | 4.312 | 13.8 | 13.8 |
| | | #2 | ↓ | 4.462 | 4.462 | 10.8 | 10.8 |
| 03061541.D | 3-7-15 1:42 | PCB1260(5) #1 | 5.000 | 4.455 | 4.455 | 10.9 | 10.9 |
| | | #2 | ↓ | 4.652 | 4.652 | 7.0 | 7.0 |

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

NR = Not Reported

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference (%D) = 100 * (ave. CF - CF)/ave. CF
 CF=A/C

Where: ave. CF = initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

| Standard ID | Calibration Date/Time | Compound | Average CF/ CCV <u>Conc</u> | Reported | Recalculated | Reported | Recalculated |
|-------------|-----------------------|---------------|--------------------------------|------------------------|------------------------|----------|--------------|
| | | | | CF/ <u>Conc</u> CCV | CF/ <u>Conc</u> CCV | %D | %D |
| 03091503.D | 3-9-15 8:41 | PCB1260(5) #1 | 5.000 | 4.389 | 4.389 | 12.2 | 12.2 |
| | | #2 | ↓ | 4.993 | 4.993 | 0.1 | 0.1 |
| 03091519.D | 3-9-15 14:56 | PCB1260(5) #1 | 5.000 | 4.665 | 4.665 | 6.7 | 6.7 |
| | | #2 | 5.000 | 5.152 | 5.151 | 3.0 | 3.0 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: PBLKSI-68235

| Surrogate | Column | Surrogate Spiked | Surrogate Found | Percent Recovery | Percent Recovery | Percent Difference |
|----------------------|--------|------------------|-----------------|------------------|------------------|--------------------|
| | | Mg/ml | Mg/ml | Reported | Recalculated | |
| Tetrachloro-m-xylene | #1 | 0.05 | 0.032 | NR | 63.5 | — |
| Decachlorobiphenyl | ↓ | ↓ | 0.034 | 68.3 | 68.5 | — |
| Tetrachloro-m-xylene | #2 | ↓ | 0.031 | 62.2 | 62.1 | — |
| Decachlorobiphenyl | ↓ | ↓ | 0.034 | NR | 67.4 | — |

Sample ID:

NR = Not Reported

| Surrogate | Column | Surrogate Spiked | Surrogate Found | Percent Recovery | Percent Recovery | Percent Difference |
|----------------------|--------|------------------|-----------------|------------------|------------------|--------------------|
| | | | | Reported | Recalculated | |
| Tetrachloro-m-xylene | | | | | | |
| Decachlorobiphenyl | | | | | | |
| Tetrachloro-m-xylene | | | | | | |
| Decachlorobiphenyl | | | | | | |

Sample ID:

| Surrogate | Column | Surrogate Spiked | Surrogate Found | Percent Recovery | Percent Recovery | Percent Difference |
|----------------------|--------|------------------|-----------------|------------------|------------------|--------------------|
| | | | | Reported | Recalculated | |
| Tetrachloro-m-xylene | | | | | | |
| Decachlorobiphenyl | | | | | | |
| Tetrachloro-m-xylene | | | | | | |
| Decachlorobiphenyl | | | | | | |

Sample ID:

| Surrogate | Column | Surrogate Spiked | Surrogate Found | Percent Recovery | Percent Recovery | Percent Difference |
|----------------------|--------|------------------|-----------------|------------------|------------------|--------------------|
| | | | | Reported | Recalculated | |
| Tetrachloro-m-xylene | | | | | | |
| Decachlorobiphenyl | | | | | | |
| Tetrachloro-m-xylene | | | | | | |
| Decachlorobiphenyl | | | | | | |

Notes: _____

LDC #: _____

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$

Where: SSC = Spiked sample concentration
 SA = Spike added

SC = Concentration

RPD = $|LCS - LCSD| * 2 / (LCS + LCSD)$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

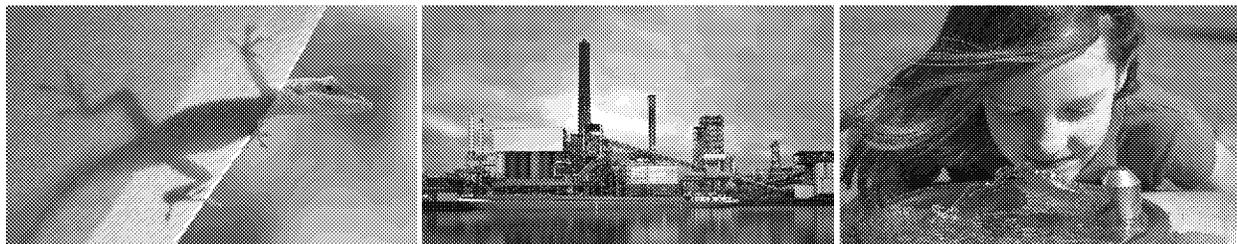
LCS/LCSD samples: PLC551-68235

| Compound | Spike Added (ng/kg) | | Spiked Sample Concentration (ng/kg) | | LCS | | LCSD | | LCS/LCSD | |
|--------------|------------------------|------|--|------|------------------|---------|------------------|---------|----------|---------|
| | LCS | LCSD | LCS | LCSD | Percent Recovery | | Percent Recovery | | RPD | |
| | | | | | Reported | Recalc. | Reported | Recalc. | Reported | Recalc. |
| gamma-BHC | | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | | |
| Aroclor 1260 | 1666 | NA | 2047 | NA | 123 | 123 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Attachment C

**ENVIRON's Sampling and Analysis Plan: Malibu High School and Juan Cabrillo
Elementary School**



Sampling and Analysis Plan
Malibu High School and Juan Cabrillo
Elementary School
30215 Morning View Drive
Malibu, California

Prepared for:
Santa Monica Malibu Unified School District
1651 16th Street
Santa Monica, California

Prepared by:
ENVIRON International Corporation

Date:
February 2015

Project Number:
0433980P



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List of Appendices

Appendix A: Standard Operating Procedure for Sampling Porous Surfaces for PCBs

1 Project Administration

ENVIRON will oversee the sampling and analysis of building materials at the Site as detailed in this Sampling and Analysis Plan.

1.1 Training Requirements & Certifications

Sampling and analysis at the Malibu High School and Juan Cabrillo Elementary School will be performed by trained environmental professionals. All ENVIRON employees engaged in PCB sampling will have completed Occupational Health and Safety Administration (OSHA) 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training and annual HAZWOPER refresher training.

1.2 Health & Safety Plan

A site-specific Health and Safety Plan (HASP) will be prepared prior to commencing building materials sampling and characterization. The HASP will describe safety organization, procedures, and personal protective equipment that are based on an analysis of potential site-specific hazards. The HASP will meet the requirements of 29 CFR 1910 and will include, but will not be limited to, the following components:

- Identification of key personnel: All on-site personnel involved with the characterization and remediation activities will be required to maintain OSHA 40-hour Hazardous Waste Training (29 CFR 1910.120) and the corresponding 8-hour refresher course update.
- Training: A description of health and safety training requirements for supervisory and on-site.
- Medical Surveillance: A description of appropriate medical examinations required for supervisor and on-site personnel.
- Site Hazards: A description of chemical, physical, and climatological hazards associated with the project.
- Work Zones: A description of the work zones that will be established during characterization activities.
- Personnel Safety Equipment and Protective Clothing: A description of personnel protective equipment (PPE) and protective clothing to be used and available on the Site.
- Equipment Cleaning: The methods and procedures for decontamination of personnel, materials, and equipment will be described.
- Standard Operating Procedures and Safety Programs as required by applicable portions of 29 CFR 1910.

1.3 Documentation and Records

While implementing this Sampling and Analysis Plan, ENVIRON employees will maintain the following documentation and records:

- Location of all samples collected;

- Rationale for selection of sample location;
- Photographs and/or videos of inspection findings and sampling activities;
- Chain of custody records for all samples sent to analytical laboratories; and
- A table summarizing all samples collected.

After analytical data for all samples have been received, ENVIRON will prepare a brief report summarizing the materials sampled and the results of sampling and analysis. This report will include a summary table with the PCB results from all samples submitted for analysis.

2 Sampling Methodology

ENVIRON will collect all building material samples in accordance with the procedures described in this section.

2.1 Sampling Methodology by Material Type

Sampling methodology will be determined by the type of material being sampled. The methodology for each type of material expected to be sampled is detailed below. In general, all sampling locations will be kept wet and polyethylene drop cloths will be used to minimize accidental impacts to surrounding building materials during the sampling process. Surface of sample location will be wiped down with a damp cloth prior to sampling to ensure removal of potential contaminants. Durable field sampling equipment will be decontaminated in accordance with 40 CFR 761.79 prior to collecting a sample at each sample location to mitigate the potential for cross-contamination of samples. Disposable equipment shall be handled in accordance with Section 2.6. Each component of the sampling device will be decontaminated or replaced with a new, dedicated, or disposable component prior to collecting samples for laboratory analysis.

2.1.1 Caulk

Caulk is a non-structural material used to fill cracks or holes, such as gaps in window and door frames, masonry, and joints in buildings. Between 1950 and 1979, PCBs were incorporated into caulk to increase its flexibility.

Soft porous surfaces (e.g. caulk) will be sampled in accordance with the USEPA Region I Standard Operating Procedure (SOP) for Sampling Porous Surfaces for Polychlorinated Biphenyls (May 2011), included as Appendix A of this document. Representative samples of caulk will be collected with a minimum frequency of one sample per potential sample location per room, up to 2 locations per room.

Samples will be obtained from soft porous surfaces at no more than 0.5-inch depth intervals using a metal chisel, sharp knife, or other cutting tool. A 3 to 10 gram (g) sample is ideal for laboratory analysis. The cutting tool will be decontaminated between samples. If adjacent media are inadvertently removed in the process of sample collection, ENVIRON will attempt to physically remove this media from the soft porous material prior to placement in the sample container.

2.2 Decontamination Procedures

Durable field sampling equipment will be decontaminated prior to each sample location to mitigate the potential for cross-contamination of samples. Each component of the sampling device will be decontaminated or replaced with a new dedicated or disposable component prior to collecting samples for laboratory analysis. All non-disposable sampling equipment will be subject to decontamination procedures prior to sampling, consistent with 40 CFR 761.79. If gloves come into contact with sample media, a new pair of clean, nitrile gloves will be used at each location.

In addition, limited decontamination of sampling locations will be performed subsequent to collection of samples. For example, a damp rag will be used to remove any excess powder generated during the sampling of hard porous surfaces via a drill.

2.3 PCB Best Management Practices - Sampling in an Active School

Dust generation during sampling should be minimized by using wet method and/or HEPA filter vacuuming. After sampling, the immediate surface should be vacuumed with a HEPA-filtered vacuum cleaner and then wiped with a wet cloth. The work area should be visibly inspected and re-cleaned if dust or debris is identified. Once the area is cleaned the sample location should be re-caulked.

The HEPA vacuum cleaner should be inspected and filter should be replaced as needed and as described in the April 2014 ENVIRON *Comprehensive PCB-Related Building Materials Inspection, Management, and Removal Plan for the Santa Monica-Malibu Unified School District* ("General Plan").

2.4 Sample Handling and Custody Procedures

All samples will be logged on standard chain-of-custody forms, shipped in laboratory-provided containers, and stored on ice in closed coolers, which will be sealed with chain-of-custody tape, for delivery to a state-certified, approved laboratory within 48 hours of sample collection. For this project, ENVIRON plans to submit samples to ALS Environmental Laboratory in Holland, Michigan.

2.5 Field Quality Control

Given the nature of the investigation (verification sampling of reported third party sample locations), field duplicates will not be collected. In addition, ENVIRON will provide the laboratory with sufficient sample material to conduct matrix spike and matrix spike duplicate analyses on ten percent of the total samples.

2.6 Waste Management and Disposal

Waste management includes handling, storing, containerizing, transporting (including providing and preparing manifests, bills of lading, etc.), and disposing of PCB waste streams. The PCB waste streams will be transported via a licensed waste hauler to a permitted chemical waste disposal facility as outlined below.

Liquids generated during decontamination or that are collected on polyethylene sheeting during dust suppression will be containerized on site, sampled, and designated for off-site disposal in accordance with 40 CFR 761.79.

Polyethylene sheeting, PPE (i.e.; gloves, etc.), and non-liquid cleaning materials (i.e., rags, etc.) will be managed and disposed of off-site in accordance with 40 CFR 761.61(a)(5)(v).

All wastes will be placed in covered waste containers (5-gallon buckets) or 55-gallon US Department of Transportation (DOT)-approved steel containers in accordance with applicable requirements in 40 CFR 761.65 and 40 CFR 761, Subpart K. All containers will be properly labeled and marked in accordance with 40 CFR 761.40 and will be stored in a locked, secure

area designated by the Santa Monica-Malibu Unified School District (SMMUSD or District) until characterized for off-site disposal.

All investigative derived waste (IDW) can be stored onsite for up to 30 days, unless it is transferred to an area meeting EPA's requirements for "permanent storage," and it is our understanding that SMMUSD does not have a waste storage area onsite meeting these requirements. Therefore, the District will transport IDW for offsite disposal within 30 days of generation.

If PCB concentrations greater than 50 ppm are found in materials at the Site, waste determinations will be made in consultation with USEPA Region IX.

Upon completion of waste profiling and acceptance to the respective facilities, PCB wastes will be loaded into transportation vehicles for shipment to the disposal facility.

The information provided above is for general informational purposes. It is understood that waste management and disposal will be conducted by others.

3 Analytical Method Requirements

All samples will be analyzed by EPA Method 8082 for Aroclors with soxhlet extraction by Method 3540. The laboratory method reporting limit for each of the Aroclors is approximately 30 µg/kg for a 3 gram aliquot, but the reporting limit varies depending on several factors, including the amount of sample and the degree of matrix interference.

Based on information from ALS Laboratory in Holland, Michigan, the laboratory will aim to achieve a laboratory control sample of 50% to 150% and a matrix spike recovery of 30% to 135%. If the results are outside of these targets, the validity and acceptability of the data will be evaluated.

3.1 Laboratory Quality Control Requirements

The analytical laboratory will process quality control samples with the samples submitted for analysis. The quality controls include method blank samples, surrogates, and laboratory control samples. The laboratory will provide a case narrative summary which describes the accuracy of the sample results and precision of the analytical procedure and whether there is any bias affecting the sample results.

In addition, the laboratory data reports will be submitted for internal data validation. The validation (Level III or Level IV) will summarize the laboratory samples and the laboratory QA/QC procedures and will provide an opinion on the validity and usability of the data. The analytical data will be evaluated for QA/QC based on the following document: *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008). The QA/QC evaluation of the data will focus on precision, accuracy, representativeness, completeness, and comparability relative to the project data quality objectives. A quantitative and qualitative assessment of the data will be presented and will identify potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

4 References

- ENVIRON International Corporation (ENVIRON). 2014a. *Comprehensive PCB-Related Building Materials Inspection, Management, and Removal Plan for the Santa Monica-Malibu Unified School District*. April 25. Available online:
<http://smmusd.org/PublicNotices/PCBComprehensivePlan042514.pdf>.
- ENVIRON. 2014b. *Site-Specific PCB-Related Building Materials Management, Characterization and Remediation Plan for the Library and Building E Rooms 1, 5, and 8 at Malibu High School*. July 3. Available online:
<http://www.smmusd.org/PublicNotices/PCBRemediationPlan070314.pdf>.
- ENVIRON. 2014c. *Supplemental Removal Information for the Library, Building E - Rooms 1, 5, and 8 and Building G - Room 506 at Malibu High School*. September 26. Available online:
<http://smmusd.org/PublicNotices/MHSSuppRemovalSSP092614.pdf>.
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<http://www.epa.gov/superfund/programs/clp/download/somnfg.pdf>.
- USEPA. 2011. *Standard Operating Procedures for Sampling Porous Surfaces for Polychlorinated Biphenyls*. May.
- USEPA. 2012. *Polychlorinated Biphenyls in School Buildings: Sources, Environmental Levels, and Exposures*. September.
- USEPA, 2014. Letter from Jared Blumenfeld/USEPA to Sandra Lyon/SMMUSD. October 31.

Appendix A

Standard Operating Procedure for Sampling Porous Surfaces for PCBs

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
Boston, MA 02109-3912



STANDARD OPERATING PROCEDURE FOR SAMPLING POROUS
SURFACES FOR POLYCHLORINATED BIPHENYLS (PCBs)

May 2011



SDMS DocID 484692

**STANDARD OPERATING PROCEDURE
FOR SAMPLING POROUS SURFACES
FOR POLYCHLORINATED BIPHENYLS (PCBs)**

**The Office of Environmental Measurement and Evaluation
EPA New England – Region 1
11 Technology Dr.
North Chelmsford, MA 01863**

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Example of Custody Seal and Sample Label

Example of Chain of Custody Form

1.0 Scope and Application

1.1 This Standard Operating Procedure (SOP) is suitable for collection of a porous matrix sample for analysis of Polychlorinated Biphenyls (PCBs).

1.2 This SOP describes sampling techniques for both hard and soft porous surfaces.

1.2.1 Hard surfaces, and most soft surfaces, can be sampled using an impact hammer drill to generate a uniform, finely ground, powder to be extracted and analyzed for PCBs. This procedure is primarily geared at providing enough sample quantity for two analyses. Hard porous surfaces include concrete, brick, asphalt, cement, sandstone, limestone, unglazed ceramics, and other possible PCB suspected material. This procedure may also be used on other softer porous surfaces, such as wood.

1.2.2 Soft surfaces can be sampled using a chisel or sharp knife to generate a representative sample to be extracted and analyzed for PCBs. Soft porous surfaces include wood, wall plasterboard, low density plastics, rubber, caulking, and other PCB suspected material.

1.3 This SOP provides for collection of surface samples (0 – 0.5 inches) and delineation of PCB contamination throughout the core of the porous surface. The procedure can be used to sample the porous surface at distinctly different depth zones.

2.0 Method Summary

A one-inch or other sized diameter carbide drill bit is used in a rotary impact hammer drill to generate a fine powder, or other representative sample, suitable for extraction and analysis of PCBs from porous surfaces. This method also allows the use of chisels or knives for the collection of samples from soft porous surfaces for PCB analysis.

3.0 Definitions

3.1 Field/Bottle Blank: A sample container of the same lot as the containers used for the environmental samples. This evaluates PCB contamination introduced from the sample container(s) from a common lot.

3.2 Equipment/Rinse/Rinsate Blanks: A sample that is collected by pouring hexane over the sample collection equipment after decontamination and before sample collection. The sample is collected in the appropriate sample container identical to the sample containers. This represents background contamination resulting from the field equipment, sampling procedure, sample container, and shipment.

- 3.3 Field Replicates/Duplicates: Two or more samples collected at the same sampling location. Field replicates should be samples collected side by side. Field replicates represent the precision of the whole method, site heterogeneity, field sampling, and the laboratory analysis.
- 3.4 Field Split Samples: Two or more representative subsamples taken from one environmental sample in the field. Prior to splitting, the environmental sample is homogenized to correct for sample heterogeneity that would adversely impact data comparability. Field split samples are usually analyzed by different laboratories (interlaboratory comparison) or by the same laboratory (intralaboratory comparison). Field splits are used to assess sample handling procedures from field to laboratory and laboratory comparability.
- 3.5 Laboratory Quality Samples: Additional samples that will be collected for the laboratory's quality control program: matrix spike, matrix spike duplicate, laboratory duplicates, etc.
- 3.6 Proficiency Testing (PT)/Performance Evaluation (PE) Sample: A sample, the composition of which is unknown to the laboratory or analyst, provided to the analyst or laboratory to assess the capability to produce results within acceptable criteria. This is optional depending on the data quality objectives. If possible, it is recommended that the PE sample be of similar matrix as the porous surface(s) being sampled.
- 3.7 Porous Surface: Any surface that allows PCBs to penetrate or pass into itself including, but not limited to, paint or coating on metal; corroded metal; fibrous glass or glass wool; unglazed ceramics; ceramics with porous glaze; porous building stone such as sandstone, travertine, limestone, or coral rock; low density plastics such as Styrofoam and low density polyethylene; coated (varnished or painted) or uncoated wood; painted or unpainted concrete or cement; plaster; plasterboard; wallboard; rubber; caulking; fiberboard; chipboard; asphalt; or tar paper.
- 3.8 Shipping Container Temperature Blank: A water sample that is transported to the laboratory to measure the temperature of the samples in the cooler.
- 4.0 **Health and Safety**
- 4.1 Eye, respiratory, and hearing protection are required at all times during sample drilling. A properly fitted respirator is required for hard porous surface sampling. A respirator is recommended whenever there is a risk of inhalation of either particulate or volatilized PCBs during sampling.
- 4.2 All proper personal protection clothing and equipment must be worn.

4.3 When working with potentially hazardous materials or situations, follow EPA, OSHA, and specific health or safety procedures.

4.4 Care must be exercised when using an electrical drill and sharp cutting objects.

5.0 Interferences and Potential Problems

5.1 This sampling technique produces a finely ground uniform powder, which minimizes the physical matrix effects from variations in the sample consistency (i.e., particle size, uniformity, homogeneity, and surface condition). Matrix spike analysis of a sample is highly recommended to monitor for any matrix related interferences.

5.2 Nitrile gloves are recommended. Latex gloves must not be used due to possible phthalate contamination.

5.3 Interferences may result from using contaminated equipment, solvents, reagents, sample containers, or sampling in a disturbed area. The drill bit must be decontaminated between samples. (see Section 11.0.)

5.4 Cross contamination problems can be eliminated or minimized through the use of dedicated sampling equipment.

6.0 Personnel Qualifications

6.1 All field samplers working at hazardous materials/waste sites are required to take a 40 hour health and safety training course prior to engaging in any field activities. Subsequently, an 8 hour refresher health and safety course is required annually.

6.2 The field sampler should be trained by an experienced sampler before initiating this procedure.

6.3 All personnel shall be responsible for complying with all quality assurance/quality control requirements that pertain to their organizational/technical function.

7.0 Equipment and Supplies

7.1 This list varies with the matrix and if depth profiling is required

- Rotary impact hammer variable speed drill
- 1-inch or other suitable (1/2, 3/4, etc.) diameter carbide tip drill bits
- Steel chisel or sharp cutting knife, and hammer
- Brush and cloths to clean area
- Stainless steel scoopulas

Aluminum foil to collect the powder sample
1 quart Cubitainer with the top cut out to collect the powder sample
Aluminum weighing pans to collect the powder sample
Cleaned glass container (2 oz or 40 mL) with Teflon lined cap
Decontamination supplies: hexane, two small buckets, a scrub brush, detergent, deionized water, hexane squirt bottle, and paper towels
Dedicated vacuum cleaner with a disposable filter or a vacuum pump with a dust filter
Polyethylene tubing and Pasteur pipettes
Sample tags/labels, custody seals, and Chain-of-Custody form

8.0 Sampling Design

8.1 A sufficient number of samples must be collected to meet the data quality objectives of the project. If the source of the PCB contamination is regulated under the federal TSCA PCB Regulations at 40 CFR Part 761, the sampler should insure that the sampling design is sufficient to meet any investigation or verification sampling requirements. At a minimum, the following is recommended:

8.1.1 Suspected stained area (s) should be sampled.

8.1.2 At each separate location, collect at least 3 samples of each type of porous surface, regardless of the amount of each type of porous surface present.

8.1.3 In areas where PCB equipment was used or where PCBs were stored, samples should be collected at a frequency of 1 sample/100 square feet (ft²).

9.0 Sample Collection

9.1 Hard Porous Surfaces

9.1.1 Lock a 1-inch or another size diameter carbide drill bit into the impact hammer drill and plug the drill into an appropriate power source. For easy identification, sample locations may be pre-marked using a marker or paint. (Note: the actual drilling point must not be marked.) Remove any debris with a clean brush or cloth prior to drilling. All sampling decisions of this nature should be noted in the sampling logbook.

9.1.2 Use a Cubitainer with the top cut off or aluminum foil to contain the powdered sample. Begin drilling in the designated location. Apply steady even pressure and let the drill do the work. Applying too much pressure will generate excessive heat and dull the drill bit prematurely. The drill will provide a finely ground powder that can be easily collected.

- 9.1.3 Samples should be collected at ½-inch depth intervals. Thus, the initial surface sample should be collected from 0 – 0.5 inches. A ½-inch deep hole generates about 10 grams (20 mL) of powder. Multiple holes located closely adjacent to each other, may be needed to generate sufficient sample volumes for a PCB determination. It is strongly recommended that the analytical laboratory be consulted on the minimum sample size needed for PCB extraction and analysis.
- 9.1.4 Wall and Ceiling Sampling: A team of two samplers will be required for wall and ceiling sampling. The second person will hold a clean catch surface (e.g. an aluminum pan) below the drill to collect the falling powder. Alternatively, use the chuck-end of the drill bit and punch a hole through the center of the collection pan. The drill bit is then mounted through the pan and into the drill. For ceilings, the drill may be held at an angle to collect the powder. Thus the driller can be drilling at an angle while the assistant steadies the pan to catch the falling powder. As a precaution, it may be advantageous to tape a piece of plastic around the drill, just below the chuck, to avoid dust contaminating the body of the drill and entering the drill's cooling vents. Caution must be taken to prevent obstruction of the drill's cooling vents.

9.2 Soft Porous Surfaces

- 9.2.1 The procedure for the hard porous surface may be used for certain soft porous surfaces, such as wood.
- 9.2.2 Samples should be collected at no more than ½-inch depth intervals using a metal chisel or sharp cutting knife. Thus, the initial surface sample should be collected from 0 – 0.5 inches. It is important to collect at least 10 grams for analysis.
- 9.2.3 For soft porous surfaces, such as caulking and rubber, a representative sample can be collected using a metal chisel or sharp cutting knife.

9.3 Multiple Depth Sampling

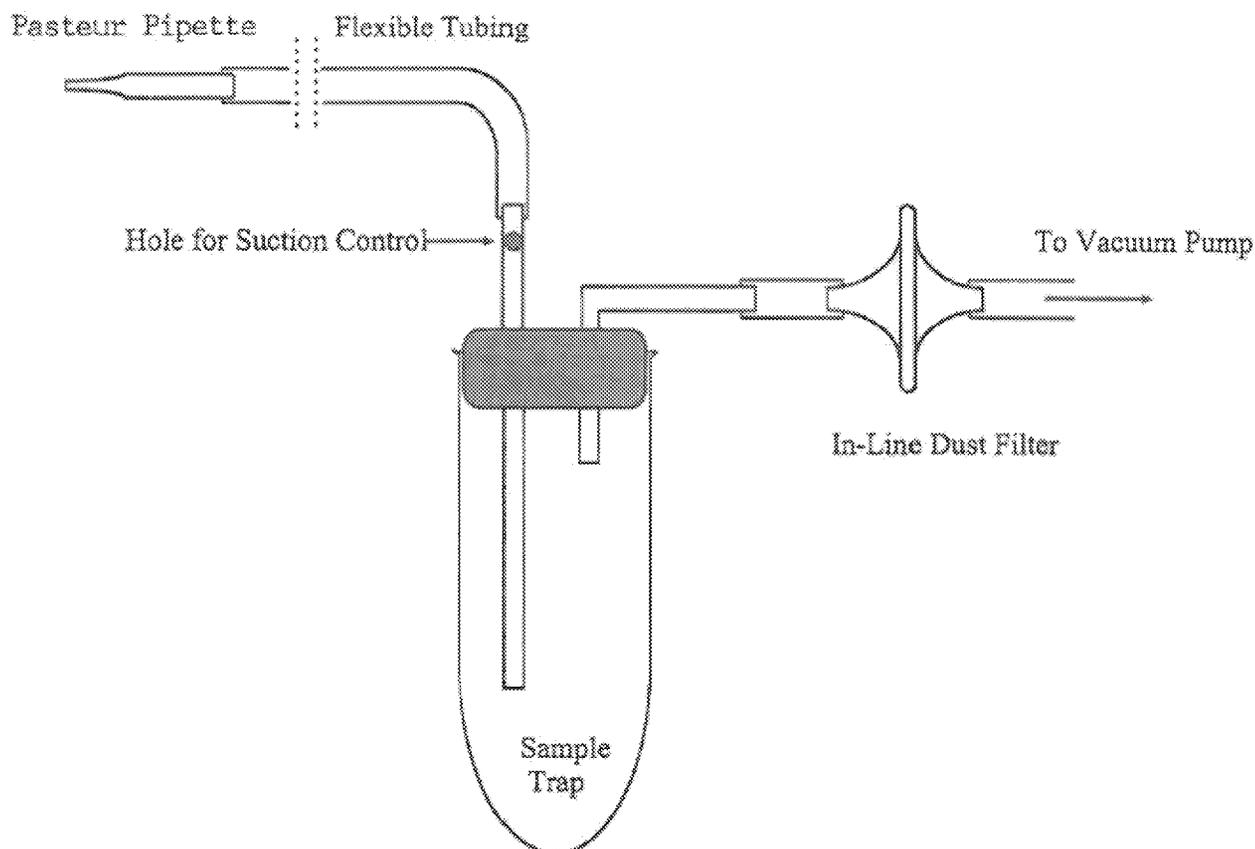
- 9.3.1 Multiple Depth Sampling may not be applicable to certain porous surfaces, such as caulking.
- 9.3.2 Collect the surface sample as outlined in Section 9.1 or 9.2.
- 9.3.3 Use the vacuum pump or cleaner to clean out the hole.
- 9.3.4 To collect multiple depths there are two options.

- 9.3.4.1 Option one: drill sequentially ½-inch increments with the 1 inch drill.
- 9.3.4.2 Option two: drill with the 1 inch bit and either make the hole larger or use a smaller bit to take the next ½- inch sample.
- 9.3.5 A stainless steel scoopula will make it easier to collect the sample from the bottom of the hole.

9.4 Vacuum Trap Design and Clean-out

The trap presented in Figure 1 is a convenient and thorough way for collecting and removing concrete powder from drilled holes. The trap system is designed to allow for control of the suction from the vacuum pump and easy trap clean-out between samples. Note, by placing a hole in the inlet tube (see Figure 1), a finger on the hand holding the trap can be used to control the suction at the sampling tip. Thus, when this hole is left completely open, there will be no suction, and the sampler can have complete control over where and what to sample. To change-out between samples the following steps should be taken: 1) the Pasteur pipette and piece of polyethylene tubing at the sample inlet should be replaced with new materials, 2) the portion of the rubber stopper and glass tubing that was in the trap should be wiped down with a clean damp paper towel (wetted with deionized water) and then dried with a fresh paper towel, 3) a clean pipe cleaner should be drawn through the glass inlet tube to remove any concrete dust present, and 4) the glass tube or flask used to collect the sample should be swapped out with a clean decontaminated sample trap. Having several clean tubes or flasks on hand will facilitate change-out between samples.

Figure 1



Note: the holes should be vacuumed thoroughly to minimize any cross-contamination between sample depths and the bits should be decontaminated between samples. (See Section 11.0)

10.0 Sample Handling, Preservation, and Storage

10.1 Samples must be collected in glass containers for PCB analyses. In general, a 2-ounce sample container with a Teflon-lined cap (wide-mouth jars are preferred) will hold sufficient mass for most analyses. A 2-ounce jar can hold roughly 90 grams of sample.

10.2 Samples are to be shipped refrigerated and maintained at $\leq 6^{\circ}\text{C}$ until the time of extraction and analysis.

10.3 The suggested holding time for PCB samples is 14 days to extraction.

11.0 Decontamination

- 11.1 Assemble two decontamination buckets. The first bucket contains a detergent and potable water solution, and the second bucket is for rinsate. Place all used drill bits, hose for the vacuum cleaner, and utensils in the detergent and water bucket. Scrub each piece thoroughly using the scrub brush. Note, the powder does cling to the metal surfaces, so care should be taken during this step, especially with the twists and curves of the drill bits. Next, rinse each piece with water and hexane. Place the rinsed pieces on clean paper towels and individually dry and inspect each piece. Note: all pieces should be dry prior to reuse.
- 11.2 Lightly contaminated drill bits and utensils may be wiped with a hexane soaked cloth and hexane rinsed for decontamination.

12.0 Data and Record Management

- 12.1 All data and information collection should follow a Field Data Management SOP or Quality Assurance Project Plan (QAPP).
- 12.2 Follow the chain of custody procedures to release the samples to the laboratory. A copy is kept with the sampling records.
- 12.3 The field data is stored for at least 3 years.

13.0 Quality Control and Quality Assurance

- 13.1 Representative samples are required. The sampler will evaluate the site specific conditions to assure the sample will be representative.
- 13.2 All sampling equipment must be decontaminated prior to use and between each discrete sample.
- 13.3 All field Quality Control (QC) sample requirements in a Sample and Analysis Plan (SAP) or QAPP must be followed. The SAP or QAPP may involve field blanks, equipment blanks, field duplicates and/or the collection of extra samples for the laboratory's quality control program.
- 13.4 Field duplicates should be collected at a minimum frequency of 1 per 20 samples or 1 per non-related porous matrix, whichever is greater.

14.0 Waste Management and Pollution Prevention

- 14.1 During field sampling events there may be PCB and/or hazardous waste produced from the sample collection. The waste must be handled and disposed of in accordance with federal, state, and local regulations. The dust filter, and tubing if a vacuum pump is used, is disposed after each site investigation. This waste will be treated as PCB waste if the samples are positive for PCBs. It may be possible to manage or dispose of the waste produced at the site where the work was performed. If the site does not meet regulatory requirements for these types of activities, the waste must be transported to a facility permitted to manage and/or dispose of the waste.

15.0 References

1. Guidance for the Preparation of Standard Operating Procedures for Quality-Related Operations, QA/G-6, EPA/600/R-96/027, November 1995.
2. 40 CFR Part 761 – Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution In Commerce, and Use Prohibitions
3. Sample Container and Holding Time: RCRA SW 846, Chapter 4, Table 4.1, Revision 4, February, 2007.

Example of Sample Label and Custody Seal

| | | |
|--------|---|-----------------|
| LABEL | U.S. ENVIRONMENTAL PROTECTION AGENCY -- REGION I BOSTON, MASS. | |
| | NAME OF UNIT AND ADDRESS | DATE, YEAR, DAY |
| SAMPLE | ENVIRONMENTAL SERVICES DIVISION 60 WESTVIEW STREET LEXINGTON, MASSACHUSETTS 02173 | TIME |
| | SOURCE OF SAMPLE | STATION NO. |
| | SAMPLING CREW (FIRST, INITIAL, LAST NAME) | SAMPLE NO. |
| | | SUB NO. |
| | | PRESERVATIVE |
| | | AMOUNT |
| | ANALYSIS | |

| | | | | |
|---|---|------|------------------------|----------------------------|
|  UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICIAL SAMPLE SEAL | SAMPLE NO. | DATE | SEAL BROKEN BY DATE | EPA FORM 7300-2 (10-78) |
| | SIGNATURE | | | |
| | PRINT NAME AND TITLE (Inspector, Analyst or Technician) | | | |

